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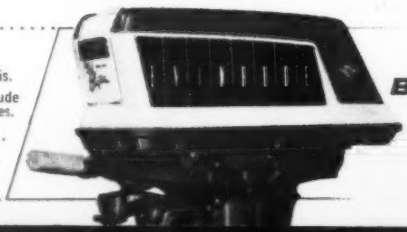

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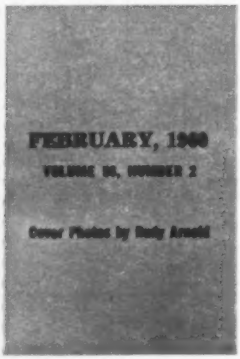

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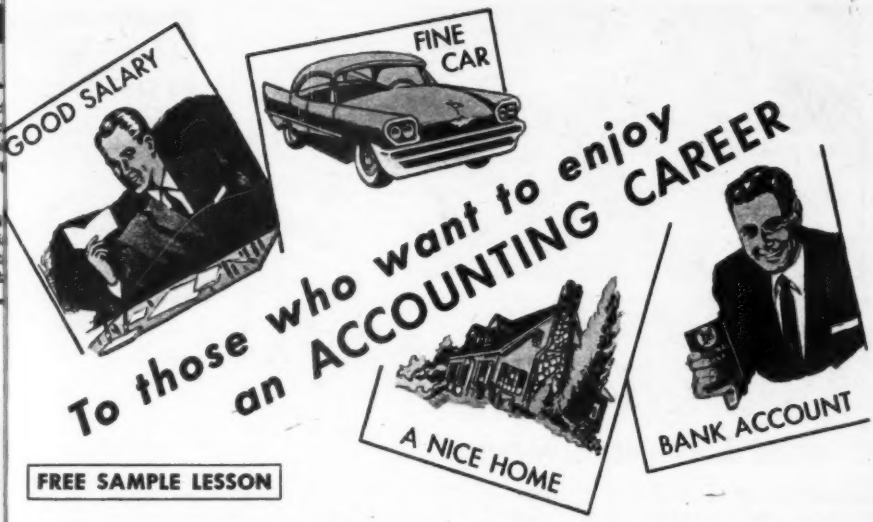

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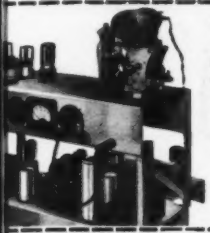

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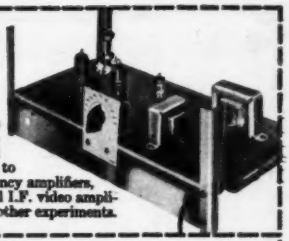

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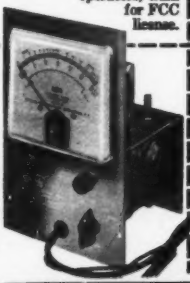

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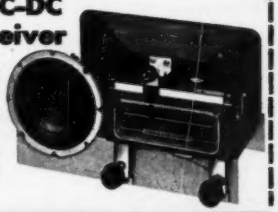

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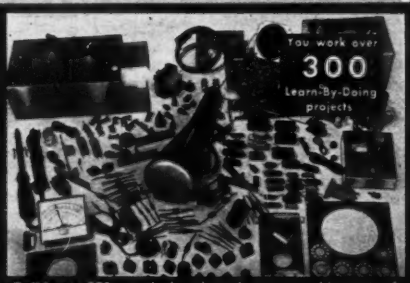

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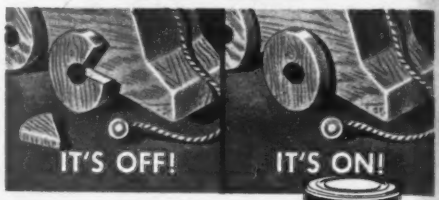

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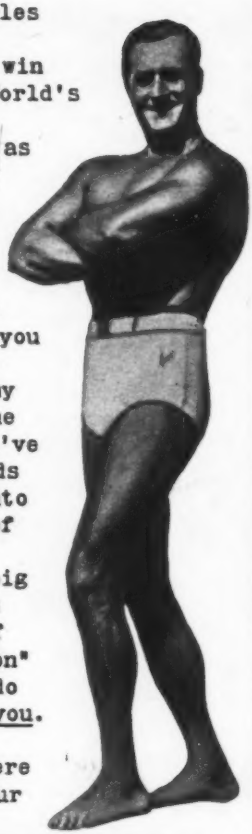

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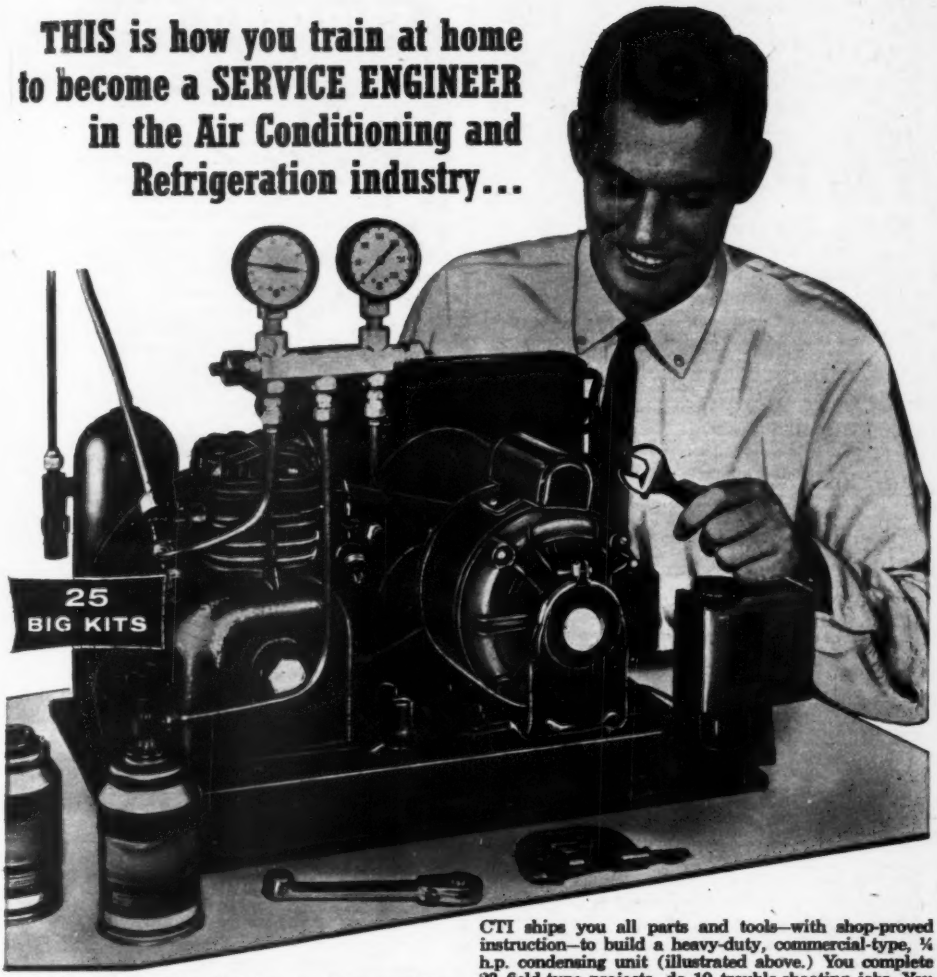

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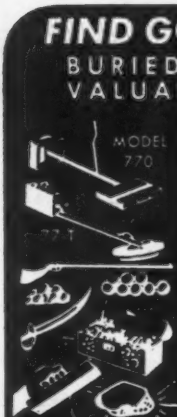

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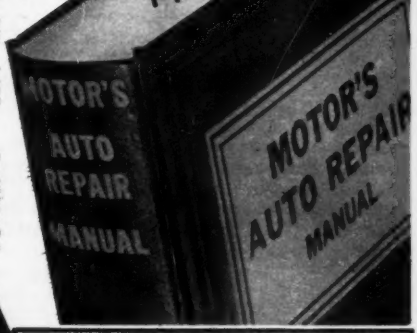

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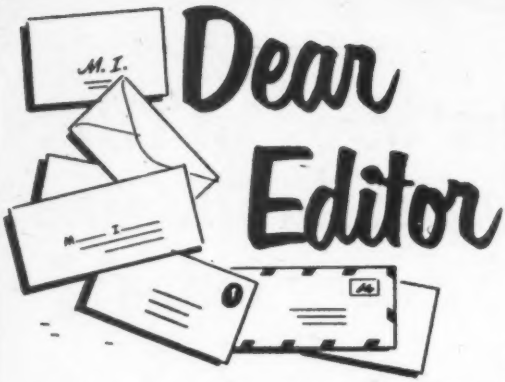

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● *Biggish Order*

Please advise if you have available, and how I may obtain it, any information on the theory of flight and its applications—specifically articles on how to illustrate and explain all principles and ideas associated with flight.

Donald W. Foss
South Portland, Me.

Madame LaBonza's Dream Book states that dreaming of flying means the insurance man will catch you at home. But if you are really serious, here are some real titles: Fawcett Publications (write Circulation Dept., Fawcett Books, Greenwich, Conn.) has an excellent book called Secrets of Space Flight (75 cents plus 10 cents postage). Or Flight Handbook, The Theory And Practice of Aeronautics, published by Iliffe and Sons, Dorset House, Stamford St., London SE 1, England, might be your meat.

● *Soap Box Derby Racers*

I need plans for a Soap Box Derby Racer.

L. H. Bedard
95 St. Ambroise St.
Loretteville, Que.

Write to Mr. R. L. Gough, General Motors of Canada, Oshawa, Ont. Yanks write to Chevrolet Public Relations, General Motors Bldg., Detroit 2, Mich. Or see your Chevy dealer.

● *Reassurance*

I'm trying to devise a device so skin divers can talk to each other under water. If you hear voices the next time you're in the tub don't be alarmed. It may very well be me, testing my device.

W. S.
Levittown, Pa.

All right.

● *Spider Ranch*

We purchased a ranch house that has a four-foot crawl space and we are having a lot of trouble with spiders. My little girl has been bitten pretty badly a few times during the night when she is sleeping. I hope you can tell us how to get rid of them for good.

E. E. B.
East Hartford, Conn.

Keep your crawl space tidy and spray it with insecticide to get rid of the insects the spiders eat. Spiders are not biting your little girl in her sleep—they have nothing to gain by it as they do not feed on blood as do mosquitoes, flies, fleas, bedbugs and mites.

● *Plans For A Trip?*

I would like to know if you have a plan on how to build covered wagons. If you do, how much do they cost?

S. C.
Walla Walla, Wash.

Sorry. Description of an ark, however, appears in Genesis, Chapter 6. If you want to build a model covered wagon, we did publish plans in the August '51 MI. You might find a copy in a back-date magazine store or get photocopies of the article from the photo serv-

[Continued on page 22]

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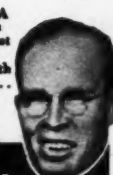

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MINNESOTA "Averaging over $300 per month part-time. Nothing beats being your own boss" . . . T. Mason, Winona.

NEW YORK "National advertising is tops. One lead from Hqtrs' got me 3 jobs totaling $500" . . . T. Cook, Freeport.

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You get exclusive use of unique absorption process which cleans carpets and upholstery without harmful scrubbing, soaking or shrinkage. It's acclaimed by housewives, mfrs and backed by McCalls and Parents' Seals. Five other profitable services are self retarding, mothproofing, flame proofing, spotting and carpet repairing. Thus, on most jobs you multiply profits. "*Headquarters say gross $9.00 per hour. I gross up to $12.00. Many dealers I know do even better,*" says Dan Chilcott of N. Platte, Neb.

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IN YOUR TOWN, there's a real opportunity right now for you to meet the growing demand for cleaning of costly carpets and upholstery . . services for which homeowners are ready to pay good money. Mechanical methods have proved to be harmful to fabrics, so the field is wide open with our exclusive, safe, scientific absorption method of cleaning. Have you investigated this opportunity? Thousands like those above have, and are now enjoying the financial security of their own business. Many have started part-time and so can you!

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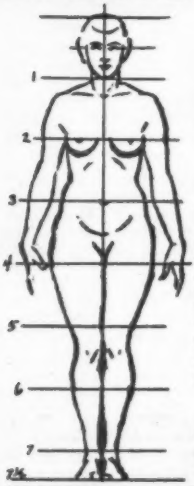

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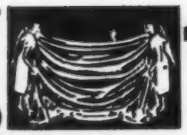

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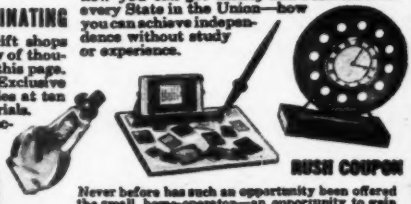

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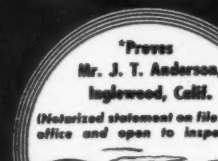

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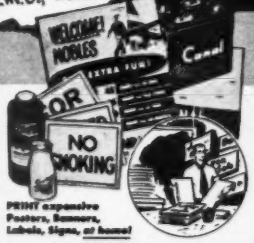

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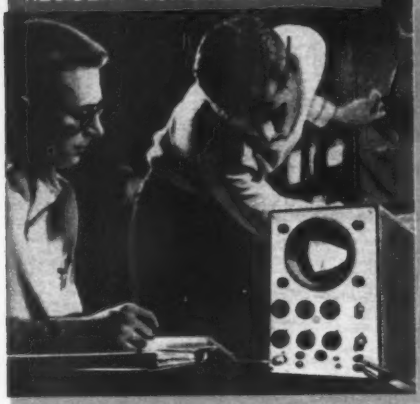

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Dear Editor

[*Continued from page* 16]

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● *Far-Sighted*

Obviously, "Indignant" (Oct. MI Dear Editor) has two left hands. Upon viewing the article on Ike's New Jet (Aug. MI) he should have given some consideration to the probable benefits and long-range savings to the "ordinary, taxpaying, fare-paying Americans," such as valuable time away from home the "Top Executive" saves his traveling comfort, safety, and peace of mind, arriving at his destination rested, relaxed and better able to accomplish the mission at hand. Also it is doubtful that the "big political cheese" referred to rides around in the sky "all alone." For one whose nearsightedness is so evident, R. A. B. should stick to the Wisconsin variety of cheese, and let the "political" variety have their whey.

Douglas Stevens
Japan

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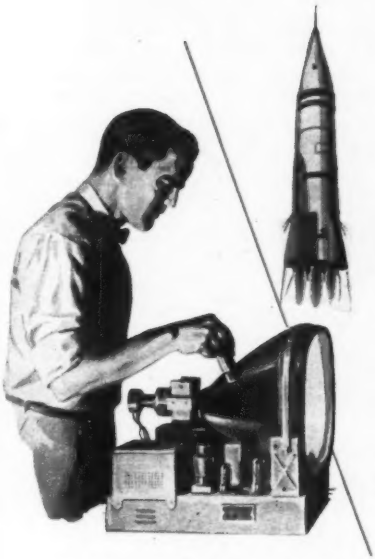

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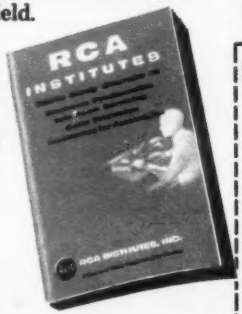

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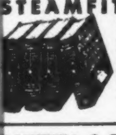

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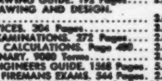

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FOR REPAIRING ALL ELECTRICAL APPLIANCES MOTORS • AUTOMOBILES • TV TUBES

As an electrical trouble shooter the Model 70:

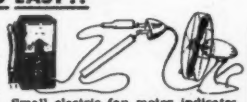
- Will test Toasters, Irons, Broilers, Heating Pads, Clocks, Fans, Vacuum Cleaners, Refrigerators, Lamps, Fluorescents, Switches, Thermostats, etc.
- Will test all TV tubes for open filaments, inter-element shorts, burned out tubes, etc.
- Measures A.C. and D.C. Voltages, A.C. and D.C. Current, Resistances, Leakage, etc.
- Will measure current consumption while the appliance under test is in operation.
- Incorporates a sensitive direct-reading resistance range which will measure all resistances commonly used in electrical appliances, motors, etc.
- Leakage detecting circuit will indicate continuity from zero ohms to 5 megohms (5,000,000 ohms).

As an Automotive Tester the Model 70 will test:

• Both 6 Volt and 12 Volt Storage Batteries • Generators • Starters • Distributors • Ignition Coils • Regulators • Relays • Circuit Breakers • Cigarette Lighters • Stop Lights • Condensers • Directional Signal Systems • All Lamps and Bulbs • Fuses • Heating Systems • Horns • Also will locate poor grounds, breaks in wiring, poor connections, etc.

IT'S SO EASY!!

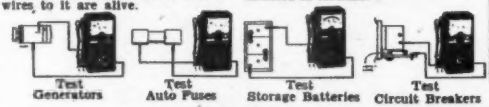
With tester's cord in outlet, current consumption of appliance is read direct on meter when line cord is connected to receptacle on panel. This typical iron takes 7 amperes (Good).



Small electric fan motor indicates 50 ohms (normal resistance).

Control circuits of most furnaces use 24 volts obtained from step-down transformer. Here's how to check room thermostat to see if wires to it are alive.

Manual supplied with Model 70 shows meter needle should move to right when test leads are connected to pins 3 and 4 of this 6AU6 tube. Procedure for testing all tubes used in TV are detailed in manual.



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• How to test all TV tubes; also simple procedure for determining which specific tube (or tubes) is causing the trouble.

• How to trace trouble in the electrical circuits and parts in automobiles and trucks.

Model 70 comes complete with above book and test leads. Only . . . **15.85**

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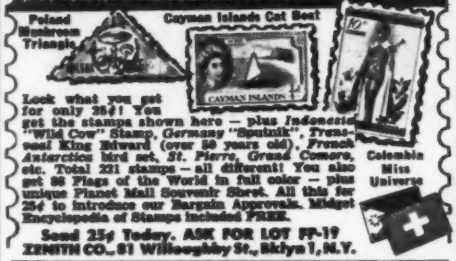

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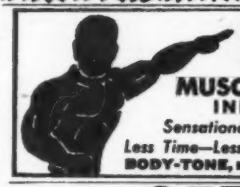

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"I Earn $25.00 per Hour"...* Spray with Suede!

$1 Worth of Materials Brings You $18—You pocket the profits!

FREE SAMPLES – MAIL COUPON NOW!

Here is Mr. J. F. K. with a few of the items he has sprayed with Flok-Kraft. He is now earning $25.00 per hour ($400 for 16 hours work) just showing companies how to spray new Flok-Kraft.

WHAT IS FLOK-KRAFT?

If you've ever touched real suede or velvet – you know how Flok-Kraft feels and looks. Now, at last this beautiful new 3-dimensional finish, developed after years of experience, can be sprayed on anything – transforming ordinary things into expensive masterpieces of beauty. You must see it to believe it, so mail coupon below and receive free samples.

Make old (even broken) radio and TV cabinets look better than new. Spray average size cabinet in 15 minutes with 34¢ worth materials and charge at least $10.00.

COVERS AND BEAUTIFIES FABRICS, METALS, GLASS, PLASTER, WOOD, PLASTIC – any surface! Huge profits are waiting to be tapped in this tremendous new field. Over 5,000 big profit uses. Spray lamps, figurines, greeting cards, signs, automobile accessories, shoes, hats, card tables, toys, furniture, draperies, ceilings, walls –anything! Flok-Kraft makes old, damaged and worn objects beautiful and saleable–makes new things worth more. You can even spray cheap butcher paper and make it look like velvet-suede, and sell it for gift-wrapping paper.

Recondition worn automobile interiors (doors, trunks, dashboards, seats, etc.) with Flok-Kraft. Just spray it on – works like magic!

RAINBOW OF COLORS
Amazing Flok-Kraft rayon and cotton fibers are now available in over 24 brilliant colors – even the amazing fluorescent "glow" colors that attract attention.

START AT HOME – SPARE TIME
Here's a rare opportunity to own your own business. Start small spare time – add to your present income. Then, as your business grows, work full time – hire others to work for you. At first, do it all in your own home – a corner of your basement, garage, dining room, service porch or kitchen is all the space you need.

LEARN IN A FEW DAYS
Almost immediately you can learn Flok-Krafting and start earning money. It's fun, fascinating – we guide you with simple step-by-step instructions. No overhead, no expensive equipment, no experience necessary either.

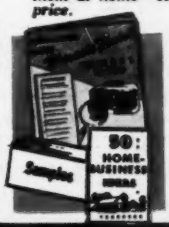
400% profit possible just spraying figurines, toys – hundreds of other items with beautiful Flok-Kraft. Work at home – spare time!

WE FURNISH EVERYTHING YOU NEED
We offer to furnish you complete easy-to-understand instructions in addition to materials that enable you to start at once. All sent at our risk because we want to start new Flok-Krafters in every area.

HELP FILL HUGE GROWING DEMAND
Imagine, there is a possible 20 Million Dollars worth of Flok-Krafting to be done. Get your share! Be first in your area to fill urgent orders that come from stores, offices, homes, neighbors, gift shops, architects, auto dealers, etc. Learn how to get orders by mail order.

JOIN THESE MEN AND WOMEN
who have already started. *"Earning $10,000 year from spare time start"* **Mr. Hever, Ore.**; *"Got $52.50 doing auto trunks in four hours – earned $13 per hour"* **J. O., Mo.**; *"Swamped with orders already"* **W. F., Calif.**; *"Got $100 job first day"* **C. H. E., Md.**; *"Quick $140 order from store – 5 other orders in 4 hours"* **H. G. R., Wisc.**

$1000.00's are earned by individuals each year spraying Christmas trees with colorful Flok-Kraft. Flok-Krafted greeting cards are big business. Buy regular cards and spray them at home – sell for twice your price.



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Invention Clinic

Joseph H. Kraus

In this column each month Mr. Kraus will answer as many letters as space permits on those subjects he feels to be of widest general interest. Time does not allow him to reply to any letters except those printed here. Address your questions to the Invention Clinic, *Mechanix Illustrated*, 67 West 44 St., New York 36, N. Y.

Smoking Pipe

Gideon E. Moore of Dublin, Ohio, includes copies of patents which might conflict with his design of a smoking pipe. Several pipes which he made were well received. What do we think about the item and what is our advice?

Your design seems better than the patents which were cited against it. But pipe manufacturers are not seeking new designs. Wait until you can encourage an ethical manufacturer to stake you to the cost of the patent, guarantee a royalty on all sales and insure distribution within a reasonable time before you go ahead with your patent.

Rotating Barbecue

Edward J. Kotthoff of Florence, Ala., sends a photograph and description of a rotating barbecue grill, and outlines its advantages. Do we think that this will become profitable?

It is likely that the expense for the large gear and the need for assuring that the grill always will remain centered and undamaged, will take this grill out of the popular-priced class. However, there are numerous ways to get around the need for accuracy and at the same time reduce production costs. You might construct the article so that its essential parts could be sold as attachments to make it interesting to those who already own grills. But don't kid yourself—grease dripping on hot coals will flame, maybe not in time to carbonize the food from which it dripped but certainly the next piece in line. There are some advantages to this design not specified by you. The food could be turned and flavored while away from the really hot area. This invention stands a reasonable chance of becoming modestly profitable until someone else makes a better item.

Oil Level Indicator

James O. Raby of Hopewell, Va., sends a copy of his patent on a device which lights a lamp on the dash when the oil has reached the one-quart level. He has used one for a number of years. So far he has been unable to arouse any interest either from automobile manufacturers or accessory producers. What suggestions do we offer?

We are not convinced that this is economical to construct. As the item stands, it would have to be installed during the manufacture of the car. But we think that you could redesign it so that it would appeal to an accessory manufacturer. Get the whole thing to fit in place of the dip stick and make it easy for the do-it-yourself mechanic to rig up. Even so, a person would think twice before he spends $25 for a unit of this type. We doubt that you can sell it for less. Remember that your sales price should be at least five times manufacturing cost.

[*Continued on page* 64]

INVENTOR'S TIP OF THE MONTH

An inventor who can produce an efficient air conditioner which the average do-it-yourseller could install in his car for about $50 would be on his way to a fortune. Attempts to utilize the heat of the exhaust have not been too successful but this wasted source of energy may some day be tapped.

Uranium "Let Him Down" to Success!

LIKE many another young American, Edward Walls was doing all right, in a moderate way, when the uranium bug bit him a couple of years ago.

And thereby hangs a mighty interesting tale.

Ed was a barber and hairdresser by trade. He operated a small shop in a Colorado city—and in his shop he heard glowing reports of overnight fortunes being made in uranium, the wonder-metal of the Atomic Age.

"If others can get rich fast in the uranium game, so can I," he thought. The more he pondered, the more alluring the Big Idea—uranium—seemed.

Edward Walls

So he sold his little shop, packed up his belongings and, with his young family in tow, struck out for Utah—the new Golconda! Or, so he imagined it to be.

A few months later, his disillusionment was complete. He hadn't made his quick million. He hadn't even made an impressive start. Despite his hard work at a precarious job with a firm engaged in uranium reduction, the cold fact was that he was broke—and likely to stay broke.

Refused to Stay Beaten

But Ed Walls isn't the type of man who "chickens out" of life's problems. Discouragement had him down, but he was far from out!

His thoughts kept turning to an old friend of his, back in Colorado, who had bought a Rug Deterger machine some time before from the Von Schrader Manufacturing Company, 212 "R" PL., Racine, Wisconsin, long-established maker of high-quality rug-cleaning machines and equipment. This friend had grown tired of working for somebody else, and had set himself up—with no previous experience and with only a small financial stake—as an independent businessman.

"And," mused Ed, "he is doing all right for himself. He is no smarter than I am. Why can't I do the same thing? All over town there are homes with rugs just itching to be cleaned!"

So enthused did he become over this idea that he telephoned the company to arrange for the purchase of a machine and supplies, and to discuss ways and means of making the most of his opportunities for money-making in the rug-cleaning business.

Small Loan Aids Fresh Start

Once his mind was made up Walls' next job was to borrow the small amount of money he needed to get started. "I found out that it's tough to borrow even a little dough when you're broke," he said. But, somehow, he *did* get the money and, with it, the machine.

"Believe it or not," Ed says, enthusiastically, "two weeks after I got my equipment and started using it, I was able to pay back the money I had borrowed—interest and all! And I was really amazed how easy it was to get work to do. One satisfied customer would tell a friend, and that friend would tell another friend. You'd think every rug in town needed cleaning—and that wouldn't be far wrong."

Ed has grossed as much as $548 in a single week since he started his own business. Some months he takes in up to $1400. Needless to say, the Walls family isn't going hungry these days.

Plans Larger Success

At latest report, Ed Walls is setting up a training program for young men in his town. He plans to add new machines to his equipment as fast as he can train these young men to operate them and represent him throughout the area.

"A year or two from now," he says, "I hope to have a *real* success story to tell. Things are better for me than they have ever been. My dreams of making a fast million in uranium never materialized—and actually I'm glad, for they forced me back to earth, where I can deal with real people and give them a real service that I'm proud of. And I'm happier that way, in addition to making a very, very good living out of my very own business."

Clubs, Banks, Hotels and Institutions of various kinds are regularly serviced by Mr. Walls.

Mr. Walls is shown here cleaning the carpets in the home of one of his many wealthy customers.

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Low Price! Smart Design! Size of cigaret package. Weighs only 3 ounces. Listen to music, sports, news, programs, etc. Modern plastic case, ivory & blue with gold metal grille. Complete broadcast band. On-off switch one end. Uses standard penlight cells (included). Guaranteed. Complete, ready for immediate playing. Postpaid Only **$5.95**

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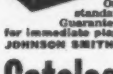

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This full-size one-man copter can be easily built and flown by do-it-yourself hobbyist. Three-view drawings of the craft may be purchased for $2, or drawings of the same machine without engine (as a simpler copter-glider) for $1. Send your order now to:

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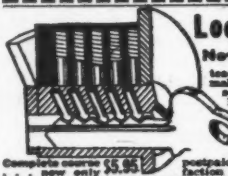
.22 Cal NEW 7 SHOT REPEATER AUTOMATIC. The skilled hands of the German gunsmith is responsible for this .22 Caliber 7 shot repeater automatic with self-ejecting empty shells. Just 4 inches long, fits easily into pocket or purse. Ideal for sporting events. Stage use (Not available to Calif. residents). Not a lethal weapon. Money back guarantee. Comes for $6.95 from Best Values Co., Dept. F-90, 403 Market St., Newark, New Jersey.



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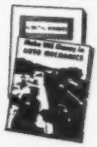

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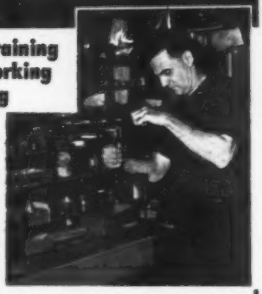

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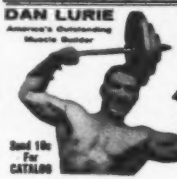

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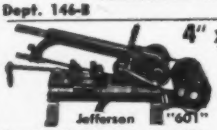

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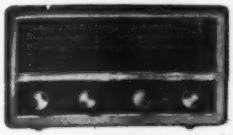

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DO YOU struggle to make ends meet? Our World-Wide Research offers many interesting opportunities. Details: World-Wide Research, 566 Bradford Avenue, Fall River, Mass.

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SAVE MONEY! 100 extra-sharp razor blades. Single, double. Guaranteed. $2. North Star Products, Box 112-ML, Cedar Grove, New Jersey.

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HIGHEST CASH Paid For Old Gold, Jewelry, Gold Teeth, Diamonds, Watches, Silver. Mail Articles Today. Information Free. Chicago Gold Refining Co., 6 E. Monroe, Dept. 1756, Chicago 3.

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• • • WATCHES, WATCHMAKING, CLOCKS

WATCHMAKERS', JEWELERS', Lapidaries' Catalog 25¢. Bengal, 8914 Venice, Culver City, California.

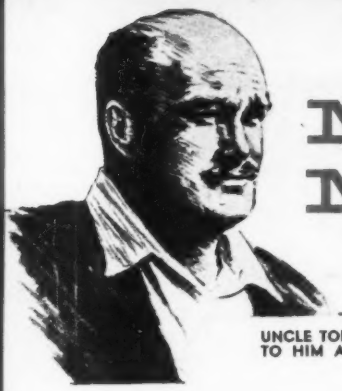
WATCH AND clock repairing books. Free catalog. North American, 2320-CP Milwaukee, Chicago 47, Ill.

USED AND new watches $2 up. Free List. Southern Watches, 5-M South Wabash, Chicago 3, Ill.

DOES A HILLHOLDER HOLD HILLS?

No, but with it you can hold The Lark on a steep hill without ever touching the bra pedal. It's a simple optional device of convenience, but one that you won't find other cars. ➤ With Lark synchromesh transmission, braking action on hills maintained simply by flooring the clutch pedal. Prevents rollback and is particular pleasant on icy slippery hills. ➤ Why do we make such a "thing" over a me hillholder? Simply to point out that Studebaker engineers and design people are very thorough lot. ➤ You'll find a very high degree of skillful detailing and inge ious design in The Lark plus a variety of features other new dimension cars do even have available: headrests, reclining seats, limited slip differential, choice of ax ratios, 4-barrel carburetor for the V-8 (0-60 in 9.5 seconds)... even air conditionin ➤ The Lark is a car of delightful surprises... particularly when you drive Tell your Studebaker Dealer to demonstrate on a twisty road. You'll "get the messag and you'll —

LOVE THAT LARK BY STUDEBAKE



MAIL FOR McCAHILL

UNCLE TOM ANSWERS HIS MOST INTERESTING LETTERS IN THIS COLUMN. WRITE TO HIM AT *MECHANIX ILLUSTRATED*, 67 WEST 44TH ST., NEW YORK 36, N. Y.

● *Would you advise me to get a Volvo as my first car? I expect to use it as a family car with good economy for about ten years, if possible. I am 23 years old—just got married in June—so I can't afford to make any foolish moves.*

Enol Bourgeois
Houma, La.

You're telling us! But about the Volvo—it's a top quality import. Whether it will last ten years depends on how much you intend to drive it. That could mean better than a half-million miles with some of our readers.

● *I've often wondered about it but never quite believed it until it happened to me. I had locked my keys in my 1953 Super 88 Olds and was about to use a stretched-out coat hanger to get in the vent window when a man who had seen my plight walked up with his '53 Buick keys and asked me to try them. I was skeptical, but lo and behold they worked! What I want to know is, just how many duplicate keys are in existence—or is that a secret for fear of helping thieves?*

Burney D.
Orlando, Fla.

I have news for you, Burney. I own four cars and on one of them (I won't tell you which) the ignition keys from the other three will work just as well as the originals for this can't-say-no kid. In fact, I can start it anytime in less than half a minute with a paper clip. With the millions of cars being built every year there are bound to be many duplicates, but in my particular case I just got a real crazy lock.

● *In a recent contest held by MI on the best-read articles, I naturally submitted my entry blank with all your articles rated Number One. I lost.*

Buz Bowler
Norfolk, Va.

I did too, and lost.

● *I am interested in buying an old Riley so that I may have the body.*

Ron Dancey
Toronto, Canada

Have you spoken to *Mr.* Riley about this?

● *Just what meaning does the "oil pressure" gauge have? I don't know.*

Jack Dixon
Salinas, Calif.

It's an indication that the oil pump is putting out, period. For example, if it shows 40-50 pounds of pressure, this means that at the point in the line where the oil gauge is connected there are 40-50 pounds of oil pressure. However, it doesn't necessarily mean you're not low on oil or that some parts of the system aren't starving for oil. It merely shows that you have some oil and that it's passing the signal point at the indicated pressure. It is possible on some engines to get a full pressure reading with less than a quart of oil left in the crankcase—though it will usually start to bob and waver when there's not enough oil to go around.

● *I bought your new book, Today's Sports And Competition Cars, and it's the greatest yet. However on page 171 you refer to the town of East Adam's Apple, Ark. I can't find this anywhere in my atlas of the state.*

E. L., Jr.
Pine Bluff, Ark.

It is now known as West Little Rock.

● *I recently took my new foreign car in for the six months' inspection required by law and was almost rejected because of the seat belts that are supplied by the manufacturer of the car. You are probably familiar with the type. It is the over-the-chest installation, which I feel to be the safest I've ever seen. The brand name was also rejected because it was not quoted in The Book. It is*

[*Continued on next page*]

no great problem to remove the belts before each inspection, but it is inconvenient. I believe the safety of any automobile should not be hampered by the law of any state. What are your feelings on this?

Wm. L. Burnett
Falls Church, Va.

For the wise enforcement of any law, standard equipment should be brains—but apparently they are something your state's motor vehicle inspectors do not possess in over-abundance.

● *Why don't today's American cars have some of the features they used to? Such as pouches in the doors for various items, shades on the windows and adjustable foot rests in the back seat. Our neighbors have a Model A Ford and, except for the upholstery and dash, I think I'd rather have its interior in my car than that of today's so-called "better cars." You'd better answer this and give me a decent answer. This is my second letter to you; Number One was unanswered.*

Gayland Davis
Spencer, S. D.

Number One wasn't any good. I can remember the day when all sedans were delivered with flower vases in the rear, and believe it or not they are now being offered again as accessories in several different shapes by Volkswagen. However, in the last few years most of our cars have lost trip meters, foot rests, shades, hand throttles, hand chokes, side pockets and most of the informative instruments. In fact, by 1980 all cars will probably be nude as a boiled egg. That's what they call progress. Personally I don't miss the flower vases.

● *A friend of mine has a stock 1956 Buick Super and says he goes zero to 60 mph in eight seconds. I know he's crazy, and you know it, but he won't believe me. Will you please print this letter to settle a bet?*

Chuck K.
Boston, Mass.

I never met a crazy guy who would believe it.

● *My father bought a retractable hardtop. I'd like to have your opinion. Would you say this was a wise choice?*

John M. Clarke
Portland, Ore.

I wish I could retract my hardtop.

● *In a moment of tender confidence at a recent cocktail party, my next-door neighbor who runs a car agency in town said he'd rather I didn't buy my new car from him as*

[*Continued on page* 54]

*Explosion proof!**
No vapor lock!
Instant re-starts!

BENDIX ELECTRIC FUEL PUMP**

This superior unit is definitely *not* "just another fuel pump". It provides improved starting, more economical operation, and longer life with no "pressure droop". Explosion proof. Eliminates vapor lock. Your boat is worthy of the finest—and, in fuel pumps, that means *Bendix*. Ask your marine dealer—he *knows!*

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Visit the Bendix booth, No. C-202, at the National Motor Boat Show in New York.

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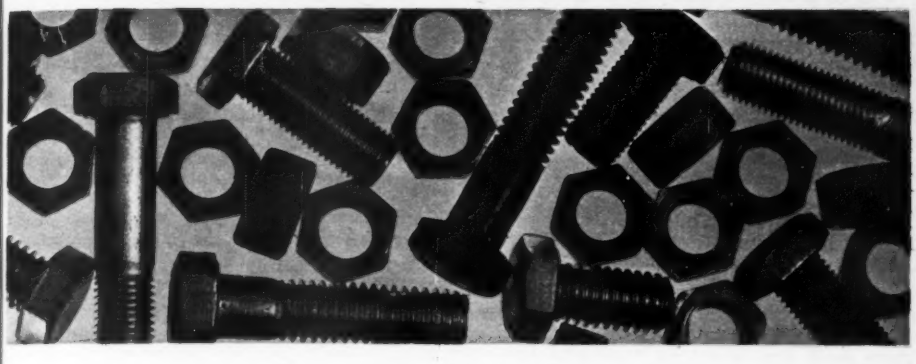

THESE ARE SOME OF THE NUTS AND BOLTS AND SCREWS THAT WERE NOT PUT INTO THE BODY AND FRAME OF THE 1960 PLYMOUTH.

They just can't loosen and rattle because they're not there. The Solid 1960 Plymouth's new Dura-Quiet Unibody is welded around 5400 times.

Ordinary unit body construction isn't particularly new. But *this* kind is!

Chrysler Corporation pioneered unit building in 1934 and turned out the first welded-unit American passenger cars. Later, the method was adapted by other manufacturers. But there were problems, in the way of noise and vibration, and chance of rust and corrosion.

Chrysler engineers kept the idea under study. To it, they applied the biggest digital electronic computer program in the auto business. They used methods developed in the building of space missiles. They built an "electronic highway" to simulate all kinds of road conditions.

The outcome is a new kind of car body—quieter, tighter, more solid than any you have known. With more room inside. Doors and windows that fit tightly. And a noticeably steadier ride, combined with easier, brisker handling.

Unibody Plymouth is made to *stay* quiet and solid for an unusually long time. Corrosion is licked for years to come by the greatest protective treatment ever given an American car. This Plymouth is, we believe, the best-built, best-performing car in the low-price class. Try it!

Body and frame are welded as one unit with Dura-Quiet Unibody construction.

SOLID PLYMOUTH 1960

A Chrysler-engineered product, built a new solid way to give you solid satisfaction.

[Continued from page 52]

planned. All new cars, he said, come back for some repairs but one out of every five he sells comes back with difficulties of "factory proportions." He said he'd rather lose a sale than my friendship. How about that, Tom?

Name Withheld On Request

Sounds to me like he doesn't want to give you a big friendly discount and then still have to back the product to the hilt.

● *A friend of mine has a 1919 Baker Electric Automobile which I could get for less than $100. If I added an additional battery would it make a good hot rod?*

William Carlton
Atlanta, Ga.

It wouldn't even make a good Baker Electric.

● *I have just finished re-reading some of your old articles in MI and one article really roused my interest. In the story on the 1953 Chevy you mentioned that a V6 rumor was in the wind for the not-too-distant future. My question is, "What happened to it?" I think that a V6 would be very practical. I've written several letters to the manufacturer in Detroit and they don't seem to have a very good answer. I hope you can come up with a better one than those I've gotten—such as a V6 can't be designed to fire right when there are two rods connected to the same shaft throw, which means dividing the crank into thirds, or a 120-degree crank. That answer doesn't satisfy me. I sure hope you can give me some help on this. I'm a mechanic and am now operating my own speed shop.*

John R. Jonker, Sr.
Kennewick, Wash.

Chevy spread the V and made it an air-cooled pancake for their new Corvair. Seriously, the biggest fault with a V6 engine isn't its ability, which has been proven by Lancia, but the fact it would call for re-educating the ignorant buying public, and this is costly. In the days of in-line engines, one of the most successful ever designed in Detroit was a straight *nine!* This proved much smoother than the then-straight eights, but ignorance and sales resistance kept it from hitting the market. It might surprise you to know that with most buyers a V8 outranks a V6; a V1

[Continued on page 56]

TIM FLOCK INVITES YOU TO SEE A GREAT NEW SAFETY AND SAVINGS ADVANCE EVERY CAR OWNER NEEDS

Demonstrations Daily During

SPEED WEEK AT DAYTONA BEACH, FLA. FEB. 7-14

TIM FLOCK, two times NASCAR Champion and one of the all-time great stock car racers says:
"I've never endorsed any automotive product but after the most gruelling tests ever devised I'm convinced the MECHANICAL MUSCLE will revolutionize a big segment of the auto industry. It will save many lives and thousands of dollars. Every car owner needs it!"

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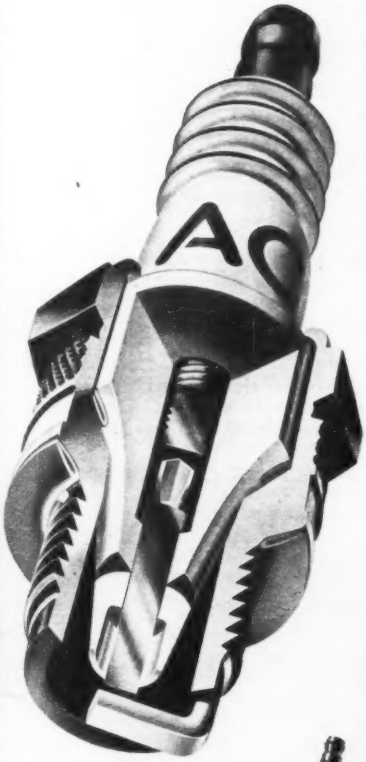

AC Fire-Ring Spark Plugs are your best buy in spark plugs for many reasons—but a big one is AC's exclusive Conductaseal that bonds the terminal screw and center electrode to the aluminum oxide insulator. This seal protects against leakage far better than ordinary seals. Leakage alters the spark plug heat range, which can damage the spark plug and, in turn, the engine.

Conductaseal is a product of AC research. It is made of finely ground copper and glass, inserted into the center of the insulator and formed under terrific heat and pressure into an unyielding bond. It is tested under 1400 p.s.i. to give you trouble-free spark plug operation and long life.

The pictures on this page give graphic proof of Conductaseal superiority. Remember them the next time you buy spark plugs. For highest quality and greatest reliability, ask for AC Fire-Ring Spark Plugs.

AC SPARK PLUG ✿ THE ELECTRONICS DIVISION OF GENERAL MOTORS

AC PRESENTS THE ART CARNEY SHOW, NBC-TV FEB. 5

Skin-diver demonstrates how AC Conductaseal stays gas-tight under 1400 p.s.i., while ordinary spark plug leaks.

This X-ray check makes certain that the Conductaseal has bonded properly. It's one of 116 AC reliability tests.

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Every AC Spark Plug features the exclusive Hot Tip that heats faster, cools faster to stay clean longer.

They must be the best!

AC Fire-Ring Spark Plugs

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- Effective, fast-acting on woodwork, furniture, floors.
- Will not harm wood or natural grain.
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Modernize old-style wood finishes in easy minutes!

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New Dexall Wood Patch

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- Fills holes, cracks, other defects in furniture and woodwork.
- Can be nailed, sanded, sawed, planed.

At paint and hardware stores everywhere.

Mail For McCahill

[*Continued from page* 54]

outranks a V8 and V16 outranks the V12 because the buffleheads feel they're getting more for their dough.

● *Here in Shelbyville there is a life-size statue of Jack Daniel, a small man who had a big idea. Mr. Reagor Motlow, distillery executive, tells me that the statue is exact in every detail except one: Old Jack wore a size five shoe, but it was decided to give the statue a larger shoe for better support.*

Robert A. Brown
Shelbyville, Tenn.

After a hard day of quality control testing at the distillery, Old Jack couldn't get enough support out of snowshoes.

● *I drive 50,000 miles a year over country roads. Do you think a Rambler American would hold up on rough roads at 50-60 mph and give me a saving over a pickup? I am an artificial breeder of cows.*

Tom Griffin
Lancaster, Ky.

You must be known in the pastures as Tom The Spoilsport. According to George Romney the Rambler will hold up. I think it will, too.

● *My problem is a two-cycle engine. As you know, when an engine is choked by putting your hand over the air intake there is suction. In my case there is an outward pressure at the air intake and suction at the muffler! I thought it was rings and put new ones on. It did not help. Now what?*

John T. Jamilske
Fayetteville, N. Y.

Sounds to me like some guy switched your manifolds.

● *I am the owner of a 1953 Buick Skylark and would like to know if this car will be a collector's item as time goes on, and if it will increase in value.*

Jerry Hersh
Rochester, N. Y.

Doubtful on both counts.

● *I am interested in ascertaining the address of Calvin and Charles Williams, twins, supposedly living in Philadelphia, Pa. According to two articles I've read recently, the Williams twins demonstrated to officials of the Chrysler Corp. in Detroit an improved version of the steam engine.*

Morgan B. Davis
215 West Broad St.
Hazelton, Pa.

Will the Williams twins please show?

[*Continued on page* 60]

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try the car with
so much that's

new

so much
that's

different!

THE SUPERLATIVE 1960 CHEVROLET

There's nothing like a new car—and no new car like a '60 Chevrolet. The Bel Air 2-Door Sedan.

Every tasteful line of this superlative '60 Chevrolet seems to tell the luxury cars to move over—from the proud jut of its prow to the saucy cut of its rear deck. ■ And the hushed elegance of its roomier new Body by Fisher repeats the refrain—with finely tailored fabrics, sofa-wide seats and a lower-than-ever transmission tunnel that'll please you right down to your toes. You'll luxuriate, too, in the way this new Chevy's Full Coil ride—insulated from road shock and noise by thicker, newly designed body mounts—rivals the poise of even the costliest cars. ■ Yet, sumptuous as this '60 Chevy is, it remains more dedicated than ever to those proved Chevrolet virtues—economy and dependability. There's a choice of two standard engines that do marvelous things with mileage—the famed Hi-Thrift 6 and a new Economy Turbo-Fire V8 that gets up to 10% more miles on a gallon of regular. Your dealer's the man to see for the facts. Chevrolet Division of General Motors, Detroit 2, Michigan. ■ **nearest to perfection a low-priced car ever came!**

CHEVROLET

These men are getting practical training in ...

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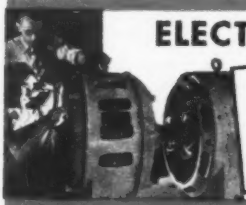

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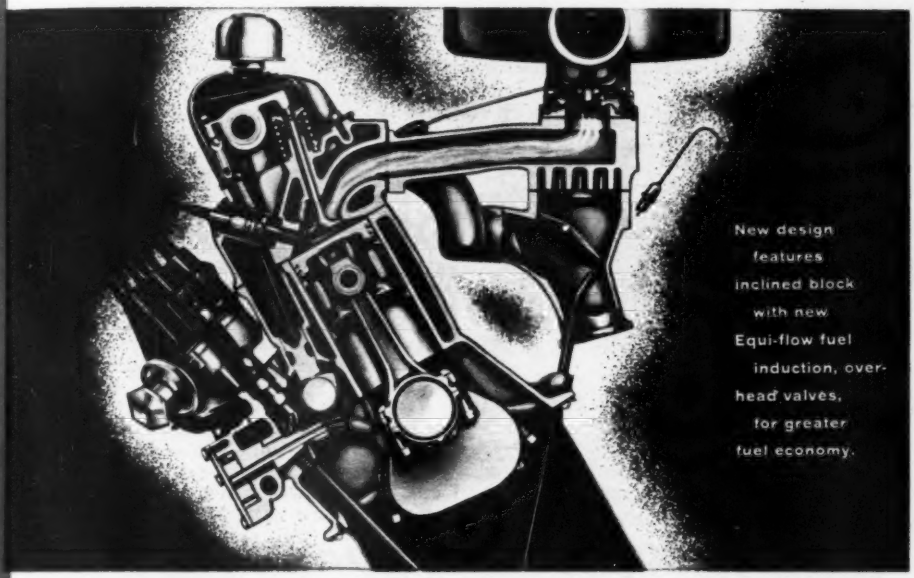
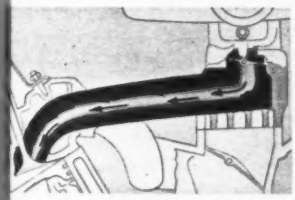
Low-Priced Dodge Dart Features Revolutionary New Engine

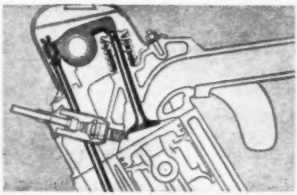
New Economy Slant "6" Uses Exclusive Semi-Ram Intake Manifold!



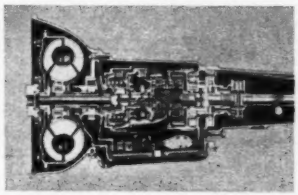
Packing surprising performance with the kind of gas mileage usually found only in much smaller cars, this new Economy Slant "6" represents a major breakthrough in engine design. The 225 cu. in. block is angled 30° to the side to allow for special free-breathing intake and exhaust manifolds. High-turbulence wedge-shaped combustion chamber and carefully selected 8.5 to 1 compression ratio deliver 145 h.p. at 4000 r.p.m., using regular gas. Special high-efficiency camshaft puts top torque right down in useful driving ranges. Output: 215 lb.-ft. at 2800 r.p.m. Uses new velvet-smooth Free-Flight Power engine mounting.



Special slant-block makes room for this new semi-ram intake manifold. Exclusive Equi-flow design provides more efficient, evenly balanced distribution of fuel to all cylinders.



Big, overhead valves mean better breathing, better distribution of fuel mixture inside cylinders. More even burning means extra power and mileage from every gallon of gas.



Special TorqueFlite Six is the first automatic transmission designed specifically to match the power-torque curve of a six-cylinder engine. (Optional at extra cost.)

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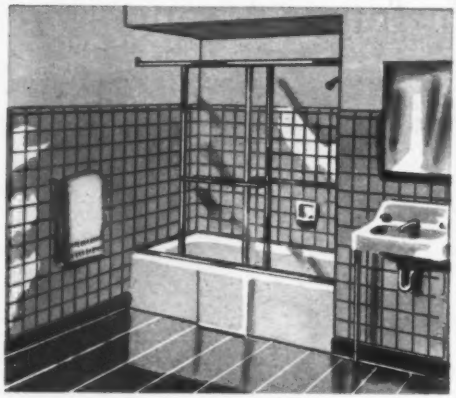

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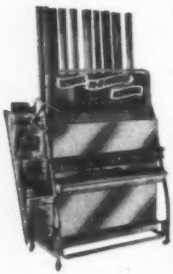


Write for free plans, how-to literature and check-list of over 40 fascinating Reynolds Do-It-Yourself Aluminum Projects.

Look for the Reynolds DIYA display rack at most hardware and building supply stores.

Reynolds Metals Co. • Richmond 18, Va.

Please send Reynolds Do-It-Yourself Aluminum How-To kit with FREE shower door plans.

Name.....

Address.....

City.....Zone....State.....

Dept. MI

Mail For McCahill

[Continued from page 56]

● *I was born about the same time you were so have always been interested in the Stutz Bearcat. Now, after all these years, I find that all my ideas about this car have been haywire. Would you straighten me out? If I remember correctly, while Stutz was still making the four-cylinder Bearcat they also made a six-cylinder Bearcat that looked exactly like the four, but with a little longer hood. Could you tell me what type engine was in this Six?*

Bob Cridland
Del Mar, Calif.

In 1915 the Stutz race team cars were all built with overhead cams and four valves per cylinder. The original Six was introduced in 1914 and was a T engine displacing 377 cubic inches. This was in addition to the Four at the same time which displaced 390 inches.

● *A Utah mountaineer tells me all you need to prevent fuel pump vapor lock is to clip several wooden clothespins along the fuel line and troubles are over. Will it work?*

John C. Grissom
San Bernardino, Calif.

All-metal spring clips would be much better as they'd help dissipate some of the heat from the fuel line into the air stream. However, it's much better and neater to rebend the line away from hot spots.

● *I was driving with my husband the other night and I accidentally ran into a pretty hard pothole. There was a loud thump as my right front wheel hit it. The next day the tire looked perfectly okay but my husband insisted I probably broke some cords in it and that I replace the tire out of my household money. Don't you think he's being a little silly about this? Personally, I think he's a jerk—although I will replace the tire. But he's going to eat spaghetti for a month. What are your opinions?*

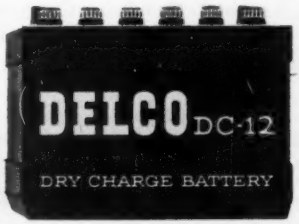
Mrs. J.K.D.
New Hope, Pa.

Well, first, I hope he likes spaghetti. However, there is a faint possibility he might be right, depending on just how severely you crashed the pothole. Years ago, I almost got my old man this way. I stole his car one night (an old Marmon 75) and while running flat-out I hit a trench just slightly smaller than the Grand Canyon. I failed to mention this to Pater and less than a week later he almost broke his neck when the tire let go and he carved the Marmon's initials into a tree.

[Continued on page 62]

Things really jump when you start with a Delco Dry Charge battery. It's got reliable power plus stamina. You need both—for today's high compression cars, loaded with accessories, demand an awful lot from a battery. In fact, the electrical load has *tripled* in the past 10 years! That's why you're wise to replace with Delco DC-12, the battery that's designed for modern car requirements. More new cars come factory equipped with this power-packed Delco. It's a dry charge battery, too—your assurance of

100% FRESH STARTS



6- AND 12-VOLT MODELS Quality built by Delco-Remy, first in automotive electrical equipment . . . distributed nationally through DMUMS

The modern little cigar with BIG cigar taste

Humidor pack of 20 **35c**

NOW MILDER THAN EVER!

Right size—long enough for complete satisfaction . . . short enough to enjoy no matter how busy you are. *Perfect blend* of the most expensive tobaccos in any cigar like it—100% cigar tobaccos clear through.

TREND-AIR CONDITIONED FOR MAXIMUM MILDNESS

Scientifically placed, microscopic air-inlets "breathe" just the right amount of cool air into the smoke stream to give you the mildest, freshest smoke you've ever tasted in a cigar, large or small.

STEPHANO BROTHERS (Cigar Division) Phila. 7, Pa.

YOU NEED NOT INHALE TO ENJOY THEM

Mail For McCahill

[Continued from page 60]

● *I am an inspector and road-test cars at a Canadian assembly plant. In answer to Irvin L. Senske's letter about automobile "lemons" in the August MI, here is a little information that may interest you. Our cars are spot-checked as they come off the assembly lines. The ones that are picked are thoroughly checked and road-tested and the necessary repairs are made. These cars are in pretty fair shape when shipped—but beware of the ones that come off the line between checks! Anything could happen on your maiden voyage. Your safest bet is to get in touch with a friend who works in an assembly plant. He may see to it that your car hits the spot check. We have acres of lemons, not just a whole tree.*

Inspector X
Canada

As not all guys are in a position to get a spot-checked car, their next best bet would be to buy only from a dealer who has no blood ties with Jack the Ripper. Actually, the final responsibility for the car's condition rests with the dealer and he gets a nice slug of change to make the car right. About six times out of ten when you get a lemon, it may be the dealer's service that clipped you. Naturally, it's the factory's responsibility to put all the parts on in the first place—something they don't always do.

● *I've been told that I'm responsible for my car at all times even though it's stolen. Could this be true?*

E.T.W.
Houston, Tex.

Certainly. Even if you did steal it you're still responsible.

● *We had a pretty horrifying experience recently. Went to a drive-in movie one hot night with our two boys, ages six and four. As is our custom when the boys get sleepy (we have blankets and pillows for them), we usually lower the tailgate of our station wagon so they can stretch out in the back with plenty of air. Well, the movie was very long so the minute it was over, in order to beat the crowd to the exit, my husband started the engine, put it in gear and shot off like a wildman. Both boys, sound asleep, slid out the back through the open tailgate and only by a miracle weren't run over by other cars. I must confess I was pretty sleepy, too, as we were almost home, ten miles away, when I turned around to see how the children were doing and was terrified to see they weren't there!*

[Continued on page 64]

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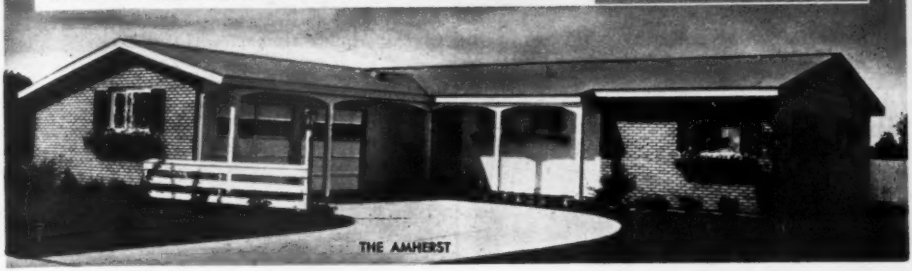
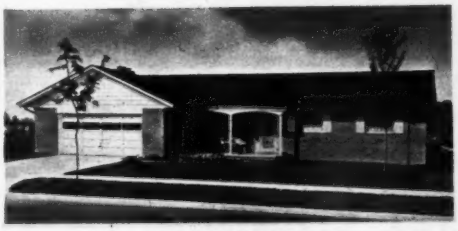


THE AMHERST

IF YOU CAN DRIVE A NAIL, YOU CAN BUILD A Liberty HOME!

Beat high building costs . . . and have an outstanding home, too. The revolutionary, new Liberty Ready-Cut method gives you a beautifully designed home . . . EASY TO ASSEMBLE . . . at unbelievably low cost. Everything is precision cut for exact fit . . . saving days of costly labor. You receive all framing and finish lumber, assembled windows, pre-fit mortised doors, oak flooring, insulation, self-sealing roof shingles, nails, paints, hardware, plus complete building plans and instructions.



THE MANCHESTER

ONLY WITH A Liberty Ready-Cut Home CAN YOU GET ALL THESE EXCLUSIVE BUILDING SERVICES

UNCONDITIONAL GUARANTEE—Your Liberty Home is covered by an unconditional guarantee for quality, quantity and soundness of construction.

FINANCING NO PROBLEM—Liberty Homes are approved by Banks and Savings and Loan Associations everywhere. Acceptable for FHA and VA financing.

SOLD DIRECT TO YOU—Liberty has no salesmen. You buy direct and save sales commissions. You make your own decision without high pressure tactics of any kind.

SAVE $5000—You save on material cost, labor cost, contracting fees. You eliminate all middleman's profits, architect's fees and costly material waste.

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FREE CONSULTATION—The Liberty way is the foolproof way. However, if a problem of any kind arises during construction, Liberty's building consultants are ready to help you day or night without obligation.

78 DESIGNS—For 1960 Liberty offers the most beautifully designed homes in America today with unlimited floor plan variations to fit your specific needs.

LIKE TO VISIT A LIBERTY HOME?

Over 25,000 Liberty owners are thrilled with their homes—and there is one near you . . . just ask us for the address.

Priced from $3700 . . . Freight Prepaid

FIND OUT ABOUT THE MOST SENSATIONAL HOME BUILDING OPPORTUNITY IN AMERICA TODAY

Clip this coupon. Mail it with 25c for your **BIG** *full-color catalog.*

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6802 Lafayette Avenue, Bay City, Michigan

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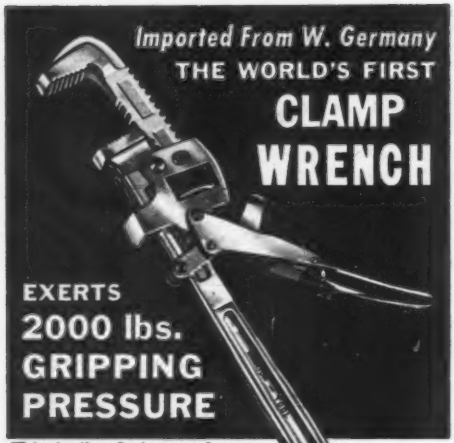

This is the first *wrench* ever made with a clamp to lock work in—and it's a remarkable tool. Locks with a tremendous 2000 lbs. gripping pressure, assures an absolute, immovable grip. Fine as lock or pipe wrench, clamp or portable vise. All steel; polished nickel-plated finish; designed and produced by the tool craftsmen of Solingen, Germany.

10" with 1½" jaws $2.95
14" with 2¼" jaws $4.50
18" with 3" jaws $5.95

Add 85c postage and handling each.

Dealer Inquiries Invited

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Age ____ Hours I work ____ Education ____ Phone ____

Mail For McCahill

[*Continued from page* 62]

Then the race back at almost 100 mph to the drive-in where, much to our relief, we found both boys with the manager. They were very scared, but unhurt except for a scratch on Jerry's nose. My point is, many parents do this with their children (open the tailgate on hot nights) and this time it could have ended in tragedy. It almost ended in divorce.

Mrs. J.K.
Pt. Pleasant, N. J.

Let this be a warning to you mothers. Either buy the kids a set of chains or staple them to the floor.

● *Uncle Tom, I have a real problem. I'm the father of six kids, oldest nine. My wife's best friend is the mother of six kids, oldest eight. She comes to our house almost every Saturday and Sunday with her brood, making a total of 12 children running around the house. The weekends are the only chance I have of getting any shut-eye at all. What can I do?*

Al. L.
Buffalo, N.Y.

I'm not going to try to tell you what you can do *now*. The question really is what you *should* have done a long time ago. You might try fumigation or the Foreign Legion. Perhaps if you stay fully crocked all weekend your wife will get the message and return some of those jolly calls at her pal's house. Be a man—fight for your rights.

—*Tom McCahill*

Invention Clinic

[*Continued from page* 30]

Window Opaquer

Walter V. Johnson of Hinton, Alberta, Canada, has come up with a liquid to opaque glass, especially to give privacy when camping in station wagons. It could be made non-soluble for outside use. Would any manufacturer be interested?

A dozen solutions have been on the market for a number of years which will do this. These, too, are available to opaque bedroom and bathroom windows and the like. And there is an ornamental, self-adhering translucent paper which also could be used. A non-soluble solution will demand special removers which may damage surfaces and materials. We doubt that any manufacturer would be interested in your proposal. ●

AT LAST!

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....AT A PRICE YOU CAN AFFORD!

Yes, this great course costs *far less* than any training of its kind given by other major schools! Radio-Television Training School will train you for a good job in Television or Industrial Electronics — **AT HOME IN YOUR SPARE TIME.**

Think of it—a complete training program including over 120 lessons, Fourteen Big Radio-Television Kits, Complete Color-TV Instruction, Unlimited Consultation Service . . . ***ALL at a really big saving to you.*** How can we do this? Write to us today . . . and find out!

And what's more — you can (if you wish)
OPEN YOUR OWN RTS-APPROVED AND FINANCED RADIO-TV SERVICE SHOP

We Want Many More Shops This Year

This 37 year old training organization — called RTS, that's Radio-Television Training School — wants to establish a string of Radio-TV Repair Shops in principal cities throughout the U. S. So far, a great many such shops are NOW IN BUSINESS AND PROSPERING. We are helping and training ambitious men to become future owners and operators of these shops in all areas.

FOR UNSKILLED INEXPERIENCED MEN ONLY — WE TRAIN YOU OUR WAY!

We must insist that the men we sign up be trained in Radio-TV Repair, Merchandising and Sales by our training methods—because WE KNOW the requirements of the industry. Therefore, we will TRAIN YOU . . . we will show you how to earn EXTRA CASH, during the first month or two of your training period. YOU KEEP YOUR PRESENT JOB. TRAINING TAKES PLACE IN YOUR OWN HOME, IN YOUR SPARE TIME!

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When you are ready and qualified to operate one of our RTS-Approved TV Repair Shops ***WE WILL SUPPLY AND FINANCE EVERY BIT OF EQUIPMENT YOU NEED TO GET STARTED*** plus an inventory of parts and supplies. In other words ***we will stake you*** . . . **AN OFFER NEVER MADE BEFORE BY ANY TRAINING ORGANIZATION.** Under the RTS Business Plan you receive:

1. An electric sign for the shop front.
2. Complete laboratory of test equipment.
3. Letterheads, calling cards, repair tickets, etc.
4. Basic inventory of tubes, parts, supplies.
5. Complete advertising and promotional material.
6. Plans for shop arrangement.
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8. Continuous consultation and help.
9. The right to use RTS Seal of Approval, and the RTS Credo.
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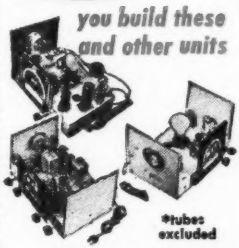
you build these and other units



*tubes excluded

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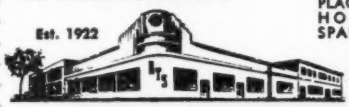

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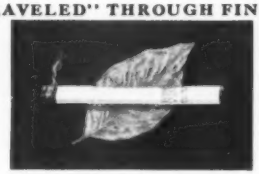
Get satisfying flavor...so friendly to your taste!

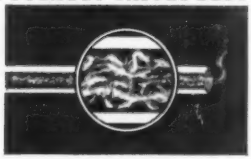
NO FLAT "FILTERED-OUT" FLAVOR!
NO DRY "SMOKED-OUT" TASTE!

You can light either end!

See how Pall Mall's famous length of fine, rich-tasting tobacco travels and gentles the smoke—makes it mild—but does not filter out that satisfying flavor!

HERE'S WHY SMOKE "TRAVELED" THROUGH FINE TOBACCO TASTES BEST





1 You get Pall Mall's famous length of the finest tobaccos money can buy.

2 Pall Mall's famous length travels and gentles the smoke naturally . . .

3 Travels it over, under, around and through Pall Mall's fine tobaccos . . . and makes it mild!

OUTSTANDING...and they are MILD!

© A. T. Co. *Product of The American Tobacco Company—"Tobacco is our middle name"*

taste!

strong.
weak.
right!

t either end!

ST

er,

ccos
d!

MECHANIX
ILLUSTRATED
February 1960

ARMOR PLATE FOR TODAY'S COPS

A NOTORIOUS gunman who decided to shoot it out recently with New York policemen hit one detective in the groin, another in the chest. But the gunman went out the hard way; his opponents were bulletproof.

The two detectives wore

NEW YORK cops wore armored vests and masks to remove bomb (in basket) from library.

ROOKIE patrolmen receive instruction in correct fitting of Spooner armored leggings, vest and hood.

Spooner Armor Co. hoods and vests and walked away without a scratch. The protectors that spared their lives are composed of interlocking metal plates, heat-treated by a special process and sewn into specially designed pockets of moisture-proof nylon.

This design makes it impossible for a slug—even fired from short range—to penetrate the seams. The nylon also eliminates ricochet; the bullet hits the armor, flattens out and falls harmlessly to the ground.

The late Bernard Spooner founded the company which is now being run by his widow, Mrs. Bernard Spooner of New York City.

Spooner personally championed the life-saving body armor he developed and frequently served as a live target to demonstrate its effectiveness. It is estimated that he had been shot at by pistol, rifle and machine gun some 2,000 times.

The bulletproof apparel is sold only to law enforcement agencies—a complete body-protecting outfit costs $300. The cops who wear it during gun battles are certain they'll walk away. Such assurance gives them the edge when the chips are down. •

TOTAL WEIGHT of complete armor is about 65 lbs. Cost: $300. Nylon mesh covers plates to eliminate ricochet.

MASK SLITS allow lawman to aim but make injuries to eyes almost impossible.

TEST PLATES show how .44 and .357 magnum slugs were stopped at 20 feet.

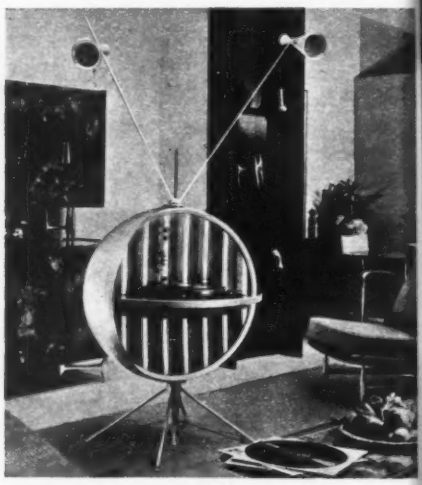
ARMOR COMPANY is run by Mrs. Pearl Spooner, shown holding a 12-lb. vest.

Now See This!

SLEEK four-door, five-passenger Jaguar is the new 3.8 liter (about 228 cubic inches) luxury sedan. The 3.8 liter engine is a six-cylinder, twin overhead camshaft job with twin carburetors. It develops 225 hp at 5,500 rpm. Length is 180¾ inches; wheelbase is 108 inches. The car has power-assisted Dunlop four-wheel disc brakes and comes with a Borg-Warner automatic transmission or a stick shift with overdrive. $5,250.

TREE CRUSHER is 95,000-pound prototype machine designed for knocking down and chewing up several acres of unproductive forest in an hour. Purpose is to reclaim land for useful purposes. The 400-hp Diesel-electric giant was developed by R. G. LeTourneau, Inc., of Longview, Texas. The new model is designed for use in this country and is 37 feet long and 12 feet high. The two rollers reduce scrub trees to splinters.

RETRACTABLE eyecups on new 7x 35mm Bushnell Binocular allow 124 per cent more viewing area for eyeglass wearers and make them suitable for sportsmen. They convert instantly for non-eyeglass wearers. The custom-made binocular has fully coated optics. Field-of-view is 404 feet at 1,000 yards. Instrument also has built-in tripod adapter, built-in ultra-violet filters and conical light baffles. The price is $89.50.

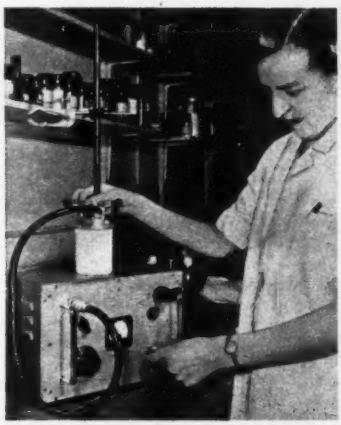


FORECAST Music Sphere is Aluminum Co. of America's design for stereophonic high fidelity of tomorrow. It consists of a three-foot aluminum globe mounted on tubular shaft rising from a four-legged stand. Atop the sphere are two speaker cones mounted on the ends of rods that pull upward. The cones can point outward in opposite directions, six feet apart. The front of the enclosure is a sliding shell over the working parts.

FREEZING MILK WITH SOUND

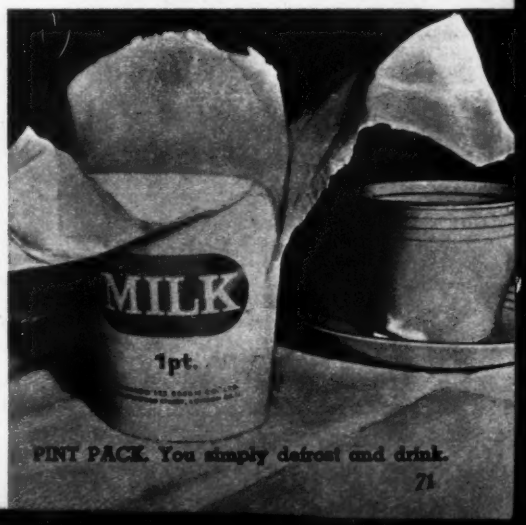
FROZEN half-gallon milk pack will keep 18 months.

FROZEN milk that will stay fresh for 18 months if its temperature is kept below 8° F. has been developed by British scientists. Ultrasonic vibrations—a million cycles per second for five minutes—do the trick. The milk is easily transported in containers of up to one gallon capacity. Hard milk may soon be on the market.



ULTRASONIC vibrations are key to British freezing of milk. It will be sold in various size cartons.

VIBRATED milk goes into deep-freeze. New process may aid underdeveloped countries.

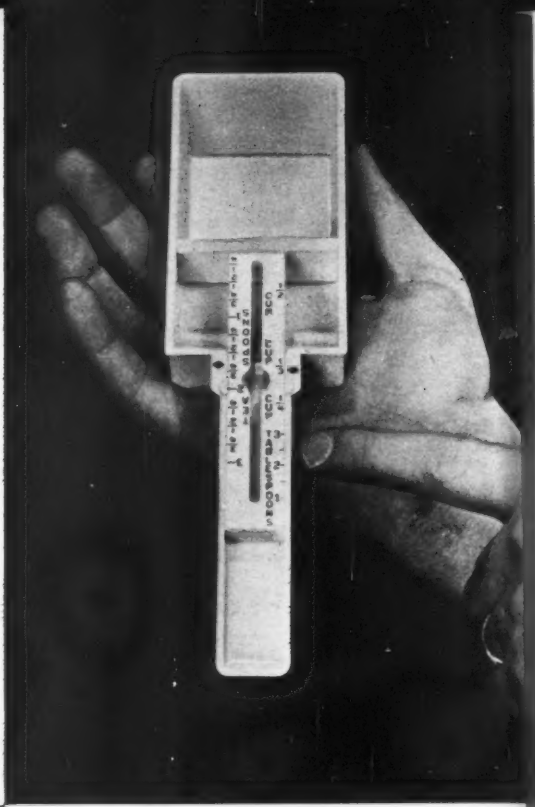


PINT PACK. You simply defrost and drink.

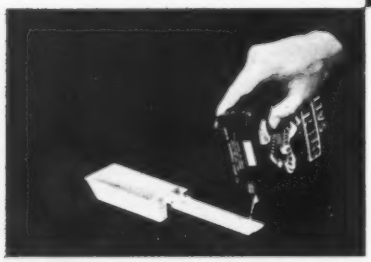
BRIGHT IDEA AWARD MECHANIX ILLUSTRATED

MEASURE METER

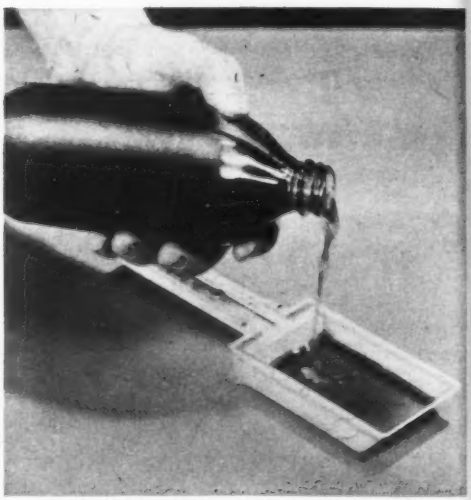
HANDY Measure Meter consists of a scoop and handle. A calibrated, sliding gauge makes it easy to measure precise proportions of teaspoons, tablespoons, cups and fractions thereof. $1. Leisure Industries, 98-10 Ascan Ave., Forest Hills, N. Y. •



PLASTIC Measure Meter has calibrated, sliding scale. The slide is locked at proper graduation.



HANDLE portion of gadget is used for measurement of teaspoons or fractions.



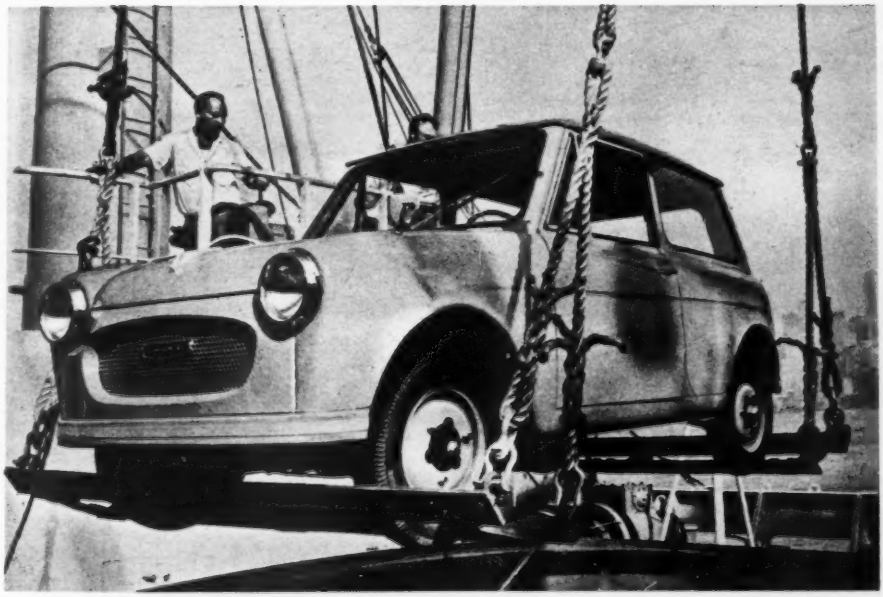
SCOOP portion of Meter is used for tablespoon and cup measurement, solids or heavy liquids.

WIN $50

MI will award $50 each month to the first person who tells us of a new and useful gadget that is patented and in production. Manufacturers are also eligible for this award. Pictures and a description should be sent to Bright Ideas Editor, Mechanix Illustrated, 67 West 44th Street, New York 36, N. Y.

IT'S NEW

AIR CUSHION SCOOTER that rides on air forced between itself and ground was developed by Princeton University, Army.

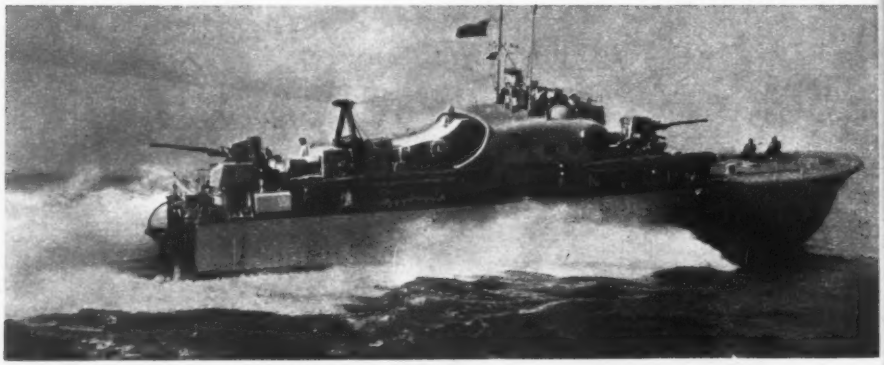


JAPANESE SMALL CAR, the Suzulight, comes up from the hold in Brooklyn. Its two-cylinder, two-cycle engine develops 18 hp, gets up to 50 mph, 50 mpg. Price about $1,350.

CONTINUED . . .

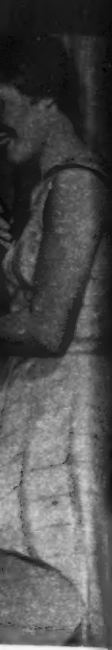
TINY RADIO, German, picks up stations in 15-mile radius without antenna, can be worn on ear. Girl holds one with antenna.

HANDY POWER UNIT, German, serves as kitchen mixer, coffee grinder, floor polisher. Primary use is as a vacuum cleaner.



BRITISH TORPEDO BOAT, new tri-engine turbine design, has made better than 50 knots.

NEWTLIKE COPTER can carry passenger unit or utility pod or serve as an aerial crane. British.



serves as
floor pol-
n cleaner.

50 knots.

24-HOUR CLOCK shows numerals 1-12 in the a.m., numerals 13-24 in the p.m. Dial under face shifts at noon. Made in Germany.

POCKET INTERCOM, entirely wireless, for paging employees of Paris air terminal. The receiver beeps to gain carrier's ear.

CHROMELESS CADILLAC designed by American industrial designer Raymond Loewy and rebodied by French custom shop has no grille, makes sculptor's use of light and shadow.

Hunting and Fishing

OUT OF THE MAILBAG

By Wynn Davis

FOUR of us who like June vacations would like to know where to go for the best (not second best) smallmouth bass fishing in the East. We don't mind traveling if the fishing is worth the mileage but we aren't just going for the ride.

Tom Garrett
Baltimore, Md.

Spednic Lake, Maine, should be the answer to your dream of top smallmouth fishing in June—or any other time. Unlike most Maine lakes, Spednic is wide open to spinning and plug fishing during June. There are big fish too, and fast action. I stay at Wheaton's Camps in Forest City because I like Ruth and Woodie Wheaton and consider Woodie the top guide in the area.

We plan a tour of the U.S.A. this summer. What is the surest guide to the correct baits, lures and flies to use trout fishing anywhere in this country? We're a couple of novices.

Tony Bolgiano
Seattle, Wash.

Your best guide is a good stream thermometer. When the water temperature registers below 50°F, look for trout on the bottom of the deeper holes, in slow currents and undercut banks. They'll be slow to bite. Use worms, minnows or crayfish. Between 50° and 55°, trout are more active and hungrier. Use streamers or wet flies on the bottom, in deep water. Between 55° and 60°, I find trout in shallow riffles and the tails of deep pools, feeding readily at all levels—even on top at times. Use streamers and wet flies. At 60°F trout become very active and many flies hatch. This is when the dry fly anglers have their day. In midsummer, hot water makes the trout sluggish again and sends some downstream to deeper, cooler water, others upstream to the cold springs. Use minnows early in the morning or large, dark wet flies at night, fished on the bottom.

I'm preparing a high school paper on National Forests. Can you tell me how many deer are now living in our National Forests?

Betsy Riggs
Richmond, Va.

My scouts tell me that 3,009,876 deer live in our National Forests. They also swear that they counted every one.

We have just been moved from an Eastern trout paradise to dusty, dry Arizona. Can you tell me where in all this desert we can find worthwhile trout fishing or must I give away my rods?

Stan Gibson
Phoenix, Ariz.

Come now, Stan—Arizona ain't that bad. You should have plenty of exciting trout fishing on the White River, the Black River or the Little Colorado. Other good waters are Tonto Creek, the Horton, Christopher, East Verde, East and West Clear Creeks and a dozen others.

What do you consider the safest outboard boat for fishing three and four in the boat in most lakes around the country?

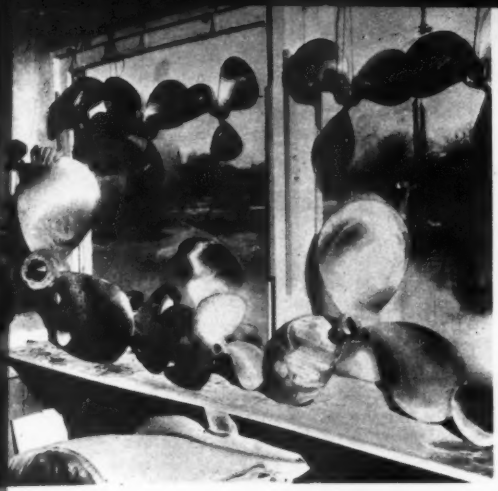
Ray Lancaster
Houston, Tex.

A 16-foot boat with at least 54-inch beam and plenty of freeboard is my idea of the smallest boat for the average novice skipper on any waters larger than a swimming pool. Anything smaller is asking for trouble, especially with four aboard.

I like to hunt rabbits and have bought two wonderful beagle hounds. But they bark whenever I leave home, even for a few minutes, and don't stop till I return. Our neighbors are now calling the police and it looks like we'll have to move to the country or give up our dogs. Is there any hope?

Roggi Soleski
Easton, Pa.

You've got a problem in common with a lot of other readers, according to my mail. Your hounds bark either because they want to be with you or for attention. In either case the only effective method of curing them of this is to rig up a very high pitched electric [*Continued on page* 187]



DISPLAY of props in Kephart's shop window.

MONEY MAKING IDEA

THE PROP DOCTOR

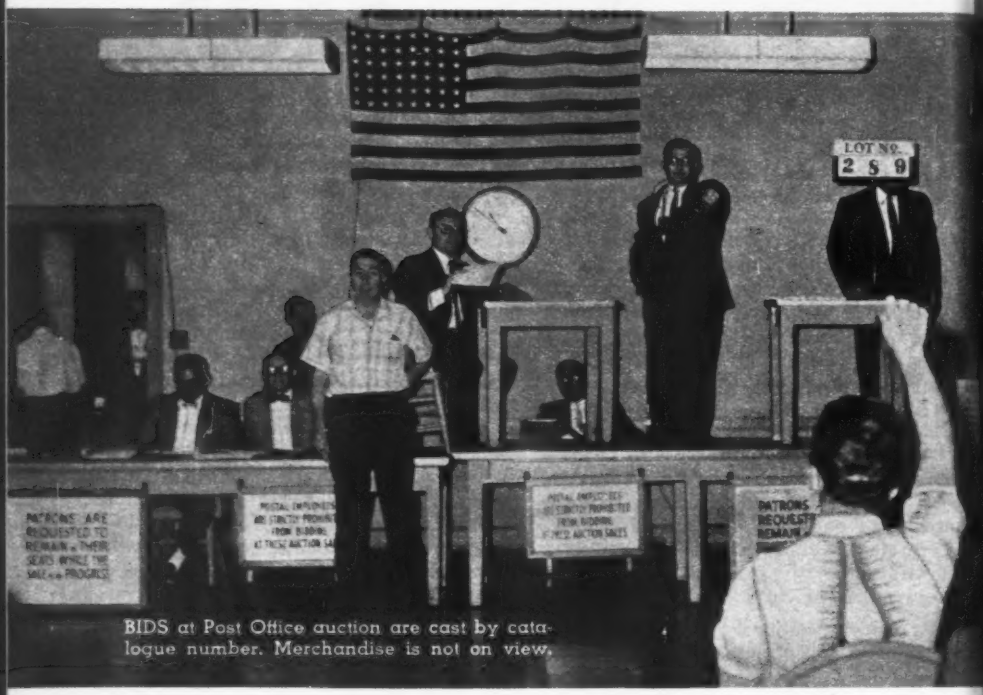
BEAT-UP boat propellers beat a path to the repair shop and filling station of H. K. Kephart, the Erie, Pa., prop rejuvenator. Kephart's work requires special equipment—alloy steel pitch blocks for reshaping the damaged propeller blades to their proper curves. The pitch blocks are a real investment—their approximate value is $5000 and without them a prop fixer is no more than a well-intentioned metal butcher. To understand the value of a perfectly shaped and balanced prop, hit a blade of your electric fan with a hammer, plug it in and throw the switch.

Kephart is an ex-motor boat racer who combines welding skill with a sympathy for the boatman. He charges $8 for unbending small props, and up to $58 for doing the same for the big 40-inch wheels. Diameter changes, custom pitch-changes and special welding are extra. To reshape a blade Kephart hammers it out on the pitch block with a nylon-head, shot-filled hammer. When he has straightened, welded and ground down a prop Kephart balances it with scientific care on a special tool. Balance and shape are all-important, insuring better motor performance and greater fuel economy for cost-conscious boat owners. •—*Walter Rudolph*

STRAIGHTENING with nylon-head hammer.

BUILDING UP a blade with bronze alloy.

HOW TO SAVE MONEY AT AUCTIONS



BIDS at Post Office auction are cast by catalogue number. Merchandise is not on view.

By Robert G. Beason

A FEW months ago a young magazine writer decided to buy a 35mm camera. He wanted a good one but he couldn't afford to spend much. So he went to the police station.

A Brooklyn housewife yearned for some unusual decorations for her living room. She went to the post office.

Although police houses and post offices aren't usually considered market places, both people got what they wanted. The author paid $18 for a high-quality camera normally priced at $185. The housewife found a set of Haitian bongo drums for only $20.

Police and postal authorities periodically hold public auctions of surplus and left-over merchandise. At them you can find bargains on everything from motor cars to fountain pens. However, few people are aware of the scores of other auctions put on by Uncle Sam as well as private businesses. Since few advertise, you must hunt for auction bargains.

A recent New York Police Department sale, for instance, saw a TV set bid

NOTICE of government auction is displayed in government buildings, gives date, time and place it will be held.

BARGAIN. Smart bidder at auction can make money-saving purchases. Portable TV set, for instance, was $10.

BONGO drums being tested by Robert K. Christenberry, Postmaster of New York, were bought by thrifty wife.

MERCHANDISE is examined by potential buyers the day before the auction. It should be examined very carefully.

in at $7, a motorcycle at $55, several bicycles at $2 each, a 1951 Ford, good enough for a second car, at $47.50. Fur coats, mouton to mink, went for $6 to $140. A wrist watch brought $13.50, a portable radio $10, a movie camera $24, a 1956 station wagon $640.

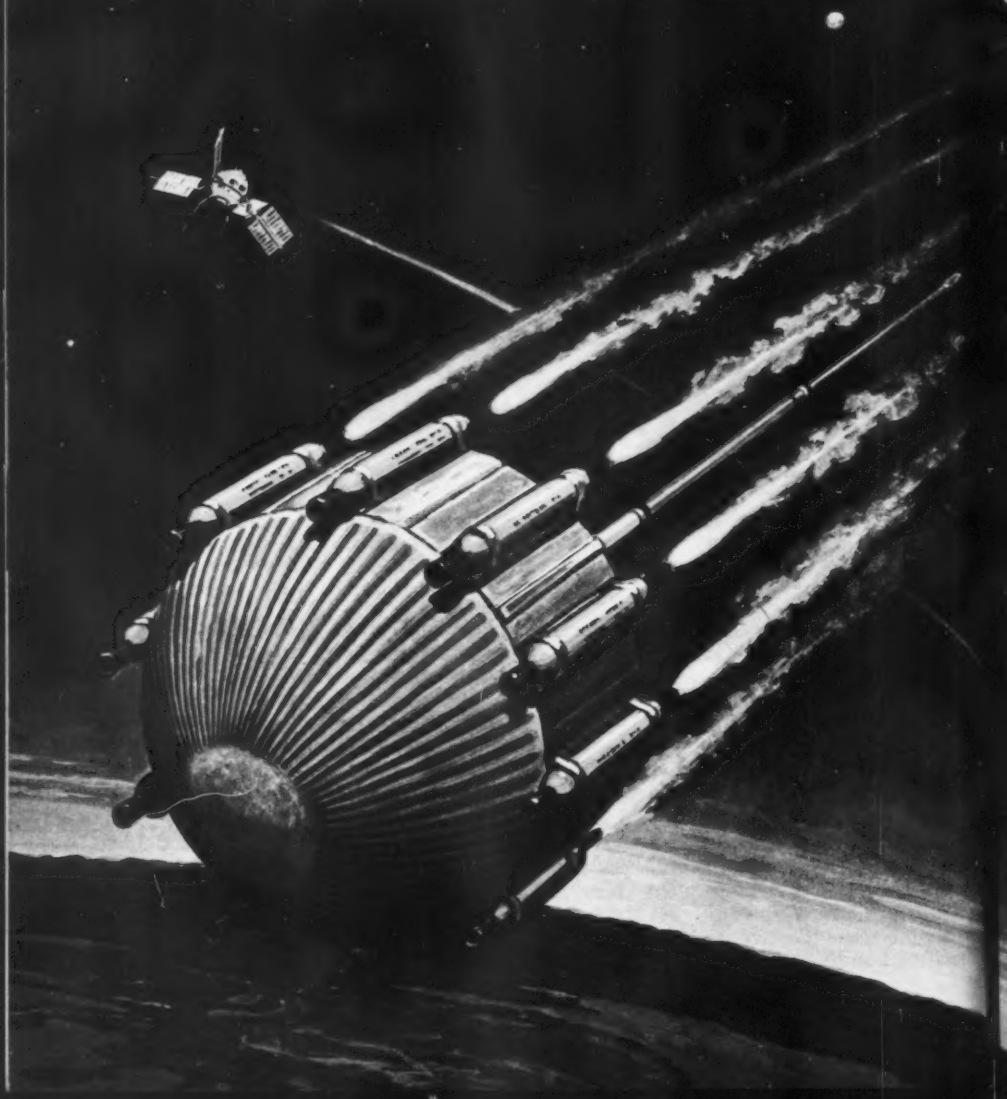
If **you know** about the postal and police auctions, you're probably also acquainted with Bureau of Customs sales. But lesser known, and less frequent, auctions are run by the General Services Administration, the Internal Revenue Service, city sanitation departments, bus lines, truck lines, some railroads and other government agencies and business firms.

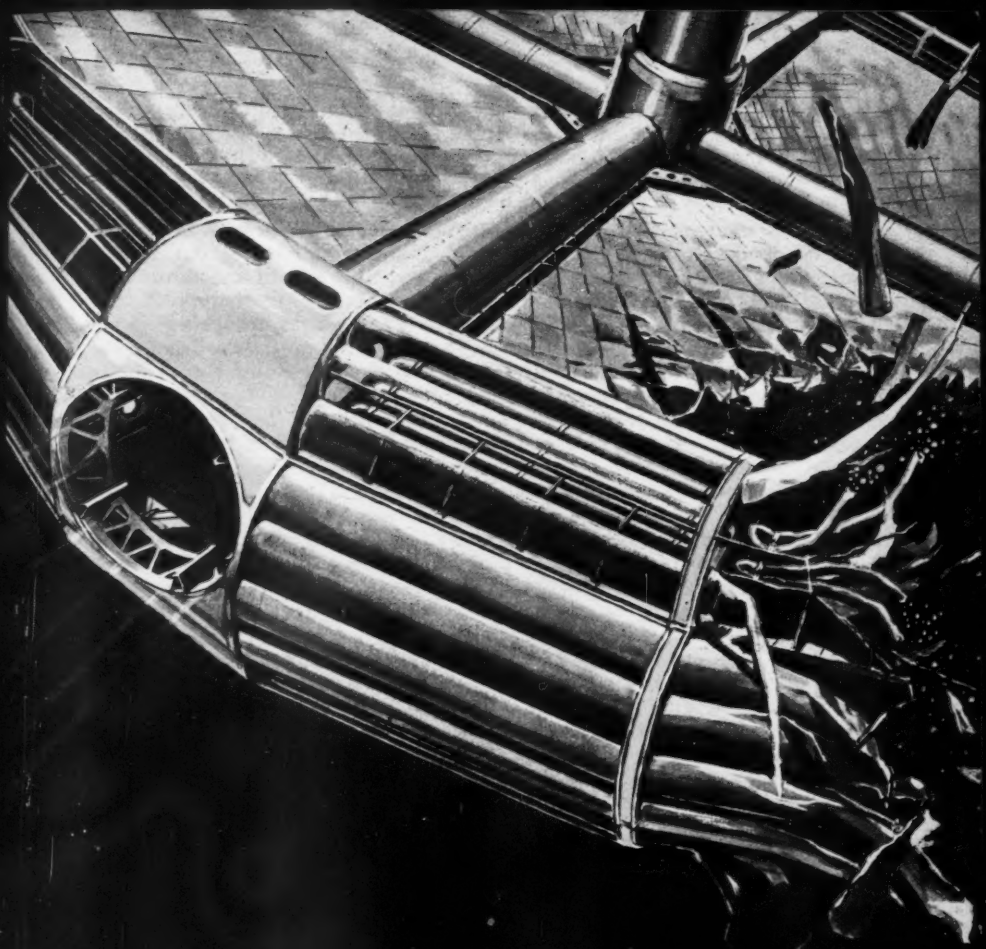
Attending auctions can become a profitable hobby, or even a career. Scores of dealers in used and cut-rate merchandise make a good living by buying low at auction and selling a little higher to a cut-rate store or second-hand emporium. A dealer of some 20 years' experience not long ago bid for 1,500 ballpoint pens at $18 at a post office sale. The next day he sold the pens for three cents each. His profit: $27, or 150 per cent!

New mer- [*Continued on page* 183]

LIFEBOATS FOR SPACESHIPS

An Original MI Design by FRANK TINSLEY





ACCORDING to the most authoritative estimates, the next 20 years will see man venturing to the moon and beyond. By spaceship, space laboratory and satellite wheels, we will explore the cold mysteries of outer space, venturing further and further as rocket boosters become more powerful and control devices more accurate.

One of the greatest dangers facing man in outer space is the problem

METEORITE COLLISION! Future spacemen in a damaged laboratory satellite or spaceship will return to earth safely in this MI-designed escape capsule.

FRANK TINSLEY

of pressure blow-outs and meteorite collisions. So rapidly is the Space Age advancing that it is not too early to consider these dangers and how they may be met.

It seems evident that some means must be devised to save the crews of damaged spaceships and satellites and to return them to earth alive and unharmed. Such a rescue device must provide a self-contained powerplant and control system, an artificial environment, means of solving the problem of re-entry into the earth's atmosphere and a system of "soft" descent to the earth's surface.

All these requirements are met in MI's Lifeboat For Spaceships—an original design based generally on what is now known of the Mercury capsule that will carry America's Astronauts into space.

There would be sufficient space lifeboats built into every large spaceship and satellite wheel to provide for the safe recovery of the entire crew. The escape capsules are designed to meet almost any type of space damage. Consider how they would be adapted to the now-familiar space wheel or satellite laboratory:

Nested snugly in the rim of the space station, each capsule is located at the outer tip of each spoke of the wheel. The capsule's telescopic mast extends to the center of the wheel and forms a fire station-style pole for quick emergency escapes.

After the capsule has been ejected, following a meteorite collision or some other space accident, the mast extends 30 feet, functioning as a stabilizing tail —much like the stick of a Fourth of July rocket.

Nose of the escape capsule is a blunt heat shield, separated from the hull by an insulating air space. The shield is mounted in interlocking sections and disintegrates when jettisoned. The double-walled hull, shaped like a huge coffee tin, is constructed of light metal, stressed to meet launching and landing impact and lined with additional insulation. Twin hatches cut entrance and exit time in half and there is plenty of deck space at the bottom of the ladders.

Eight shock-absorbing "acceleration beds" radiate outward from the center structure and are based on those designed for the Mercury Project. When not in use, their elevated leg rests fold down to increase the central deck space. The perimeter walls of the cabin are lined with lockers containing individual survival gear—clothing, compressed air tanks, food and water supplies. An oxygen mask hangs at the head of each acceleration bed, despite the fact that the capsule is pressurized and air conditioned. The astronauts are trained to wear pressure suits in case of mechanical failure.

The capsule is designed primarily for water landings and is completely seaworthy. An inflated parasol can be mounted atop the mast to provide shade. It also acts as a sail, radar reflector and visual spotting target and can be fitted with solar batteries for auxiliary power.

Radio, flares and smoke signals are carried as well as fishing kits, seasick pills, shark repellant and the other usual survival equipment. A four-foot tubular keel can be lowered from the bottom to steady the capsule in rough seas. Lifelines aid the watch on deck.

This cosmic lifesaver is much more advanced than any space vehicle in existence today. However, the development of million-pound thrust rockets like the Saturn points the way to future manned satellites. The cosmic lifeboat may be the vehicle that will bring them back alive. •

COSMIC LIFEBOAT. 1. Capsule is ejected from space station. 2. Retro rockets slow speed. 3. Empty rockets fall off. 4. Heat shielded re-entry to atmosphere. 5. At safe speed, heat shields drop, parachutes pop. 6. Parachutes fully open. 7. Insulated hull, mast extended. 8. Side, bottom heat shield fall clear. 9. Hatches swing up to form bulwarks on water. 10. Flotation bags inflate, form pontoons. 11. Folding stanchions help support wire life-rails. 12. Lookout platforms fold down, signal flares below. 13. Twin hatches. 14. Mercury type anti-gravity beds. 15. Leg-rests of beds fold down to give more deck area. 16. Individual oxygen tanks, masks, air purifiers. 17. Lockers with survival gear. 18. Lockers with food, etc. 19. Inflated parasol. 20. Retractable boat keel.

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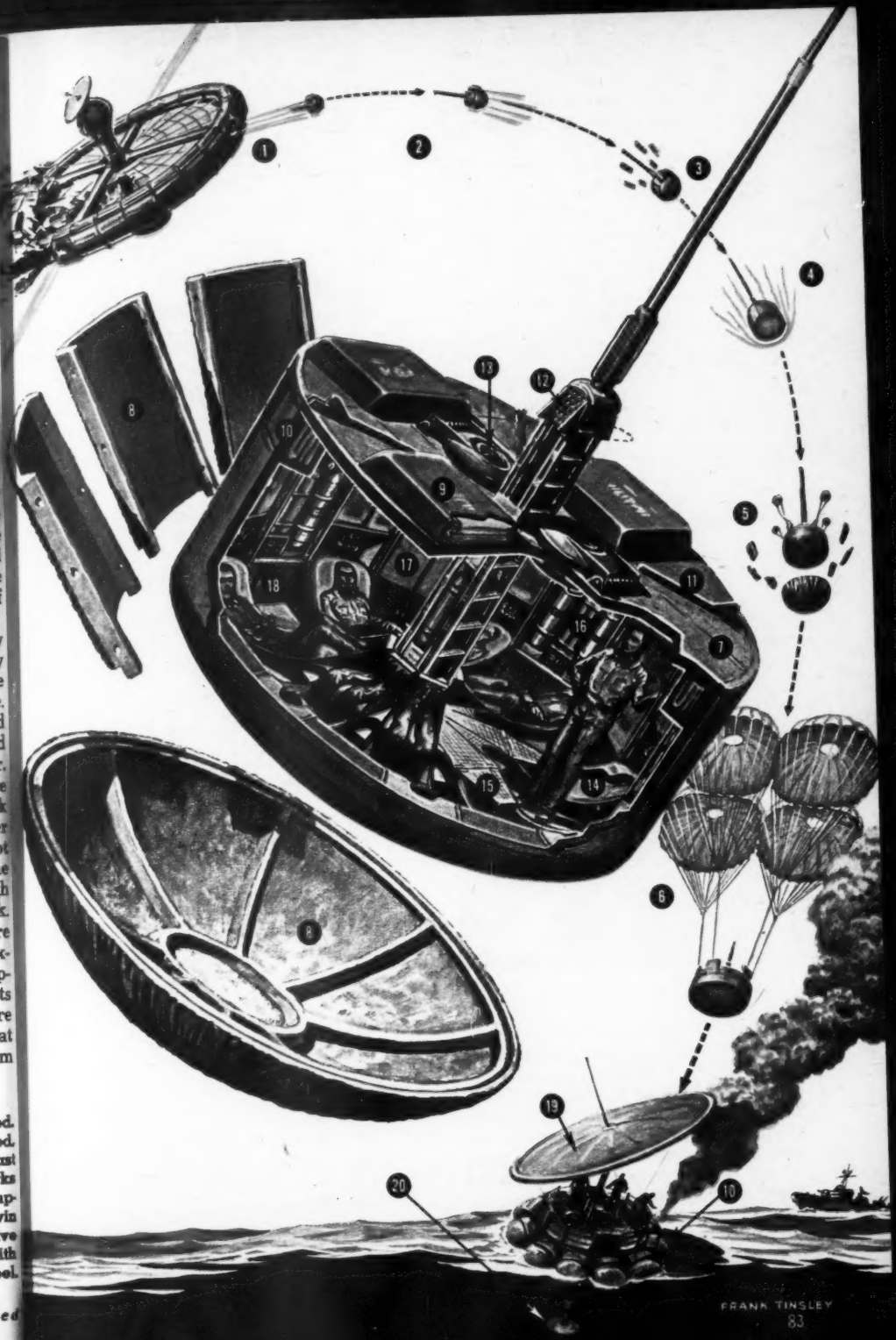


FRANK TINSLEY

MODEL-PLANE CONTROL PYLON

CONTROLON is an all-metal, scale-model flight pylon that comes with a remote control joystick. The device allows the "pilot" to control the take-off of his craft, perform intricate in-flight maneuvers and land it like an ace fighter pilot while sitting outside the circle of flight. Anchors hold the pylon securely in place at all times. The three-lb. unit is $14.95. Controlon Co., 6913 Sprague Rd., Cleveland. •

NEW USE FOR OLD STAIRCASE

YOU step up to the second floor of the Danville Hotel in Oakland, Calif., on a spiral staircase with a brightly polished railing and a spanking new coat of white paint. The staircase served the venerable Union Bank in Oakland more than half a century. Russ Glenn, proprietor of the Danville Hotel, took the staircase when it was removed from the bank building recently. It looks like a step in the right direction. •

ROOF MADE OF HAIR

HUMAN hair forms the roof of each thatched model cottage that Briton Roye England is building to recreate the village of Wiltshire as it was in the late 1920s. The hair is donated by visitors to Berkshire, where England is a youth hostel warden. •

WORLD'S TINIEST BIKE

TRICK cyclist Rih-Aruso amazes his audiences by riding the smallest bicycle in the world. The tiny machine fits in his hand. It has tires, chain, saddle and racing style handlebars. In the photo above, the Austrian cyclist signals that he is going to make a left turn on a London Street. Says Rih, "It's easy. I can do it with one hand." •

By O. O. Binder

THINGS YOU DIDN'T KNOW ABOUT YOUR MIND

CLAIRVOYANCE is mental television; its possessor sees far distant scenes and happenings.

PSYCHOKINESIS: it seems that those hot crap shooters really can control the dice.

WHILE some of our scientists have been stripping the atom of its secrets and sending monkeys into space, others have been delving into the great mystery of the human brain itself. It would seem that the brain has many powers of which we are not aware. For instance, there is a part of the brain that apparently records every impression received during the conscious life of a human being.

At a recent meeting of the National Academy Of Sciences, Dr. Wilder Penfield of the Montreal Neurological Institute described how he had stimulated an area in the cerebral cortex with tiny electric currents. In the minds of the subjects these stimuli brought on vivid

WHIZ KID from Vermont could figure grains of sand in pail in a few seconds. Mathematician took hours to discover the tike was correct.

images from the past. The effect is much more vivid than ordinary remembering; it is much more like reality.

This is only one instance of scientific investigation of mental phenomena beyond what we ordinarily call "thinking." From a number of reputable sources comes the suggestion that the brain holds valuable secrets, has hidden abilities that may some day prove of great value to us all.

Judging from the present evidence, what we now call psychic phenomena include precognition (ability to foresee the future), telepathy and clairvoyance (sometimes called mind-reading and second sight), psychokinesis (mind-over-matter), lightning calculation, inspiration and mental healing. There may be other strange abilities of which we have no inkling today.

What evidence have we for the existence of these psychic powers? Let us examine each in its turn.

Telepathy. Out of all psychic phenomena, this has perhaps gained the widest acceptance. William James, Sigmund Freud, Sir William Crookes, Albert Einstein and many other brilliant men believed in telepathy. Another was Joseph Conrad who recorded that he was able to think silently of a book he wanted out of his huge library and his wife would get it, without a word spoken. Upton Sinclair carried out extensive telepathic experiments with his wife and wrote a book about them called Mental Radio.

But it remained for Dr. J. B. Rhine of Duke University in his parapsychology researches to gain scientific recognition for ESP—Extra-Sensory Perception. His aides "transmitted" five standard symbols in a deck of 25 ESP cards to each other. Out of 85,000 trials, the [*Continued on page* 181]

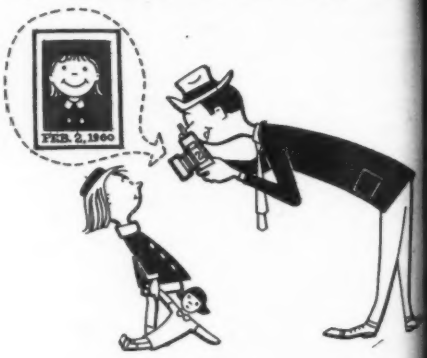
TELEPATHY—sending and receiving thoughts—is a widely accepted fact.

GREASE GUN powered by CO_2 cartridge would require only that trigger be pulled to eject grease. L. Garland, Muskogee, Okla.

DRESSER with drawers which would easily convert to suitcases with a slip-on hinged top. Thomas Trotter, San Diego, Calif.

INVENTIONS WANTED!

Is there a gadget you think should be invented? If so, send its description to Inventions Wanted Editor, MECHANIX ILLUSTRATED, 67 West 44 St., N.Y. 36, N.Y. Each one printed will be awarded $5.



CAMERA with built-in, adjustable date recorder to mark month, day, year on each photograph. Mrs. Robert Riggs, Towson, Md.

STAPLER that would quickly fasten buttons when repairs are needed, including reinforcing tab. Mrs. John C. Cosh, Sussex, N. J.

YARDSTICK with its own level would be a handy device for do-it-yourselfers, professionals, etc. L. S. Cobb, Bainbridge, Ga.

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MIMI

MIMI's the kind of girl we'd like to see shoveling snow around our house. She's using a lightweight shovel made of Marlex plastic with a smooth finish so the snow won't stick to the scoop. Color is built in; the handle is blue, the scoop red or yellow. $3.98. It is available from Beacon Plastics, Newton 61, Mass.

McCAHILL TESTS

the '60 PONTIAC

LOADED for boar. Tom gave Safari a tough test on a hunt in Great Smoky mountains.

It "handles like a polo pony and steers like a feather," says Tom of this swift luxury wagon.

By Tom McCahill

THE very best way to test any car is to live with it: use it for everyday chores, boot it real hard on a long trip over turnpikes and snarly, fifth-rate roads, even ford a stream or two, if possible.

This is the type of test I just gave the 1960 Pontiac Bonneville Safari station wagon, loaded with more extras than a C.B. DeMille Memorial Reunion.

Dave Hasinger, an old pal and hunting companion of mine, had been yaking for some time about going to the Great Smokies on

PONTIAC'S redesigned grille is not as distinctive as the '59 version, reports Tom.

TEST CAR SPECS

MODEL TESTED: **1960 Pontiac Bonneville Safari Station Wagon.**
ENGINE: **V8** cyls; **389** cubic ins; **348** brake hp; **430** ft-lbs max torque; **10.75** to 1 compression ratio. Bore **4.06** ins; stroke **3.75** ins. Fuel required: **Premium.** Standard axle ratio: **3.23.** Wheelbase **122** ins; length **213.7** ins; height **56.8** ins; width **80.7** ins; front tread **64** ins; rear tread **64** ins. Weight **4,480** lbs. Gas tank capacity **23** gals. Turning circle diameter **43.0** ft. Tire size **8.50X14.**
PRICE (without optionals): **$3,045.45**
PERFORMANCE: **0-30** mph, **3.2** secs; **0-50** mph, **6.2** secs; **0-60** mph, **8.2** secs; **0-70** mph, **12** secs; **40-60** mph, **3.8** secs. Top speed **120-plus** mph.

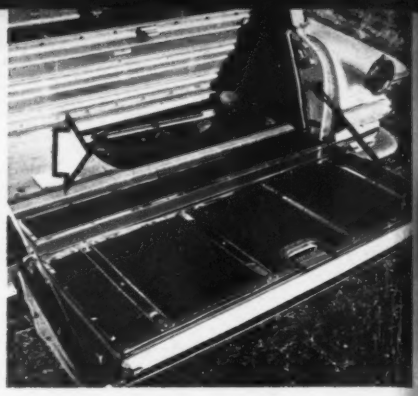
a Prussian wild boar hunt. I knew as much about Prussian wild boars as a newly-born chipmunk and I couldn't have been less interested. But this looked like the chance to try out the Safari on the American version of the word so early one cold morning we took off. We packed elephant guns, pistols, cold weather clothes and emergency fluids (in case we were bitten by the natives) and headed for the Joyce Kilmer Memorial Forest on the southeast edge of the Great Smokies National Park in North Carolina. (The name "Joyce Kilmer" Memorial Forest had some meaning for me as the Great Poet once tanned my posterior for hanging one on his son's kisser at the ripe old age of about nine.)

The road into the Blue Boar Lodge looked like a re-run of the Argonne Forest, on edge, and the Pontiac's fast steering grooved the hairpin dirt turns (that at times were only a car's width wide) like a kid's bottom on a playground slide. Some of the drops, if you miscalculated, would have been several hundred feet straight down. I'm glad we made our initial runs at night so we couldn't see what was over the cliff.

Another group of pals from Philadelphia was waiting for us and the next morning the Pontiac, loaded with equipment, Jim McMichael, myself, Dave Hasinger and Doctor Carl Jonas (a 200-pounder) started off for the mountain trails where the blue boar, imported from Germany over 60 years ago, reputedly thrive like poppies on a defunct grave. We forded several streams of heavily rushing water and then started a long climb up a rock path that had

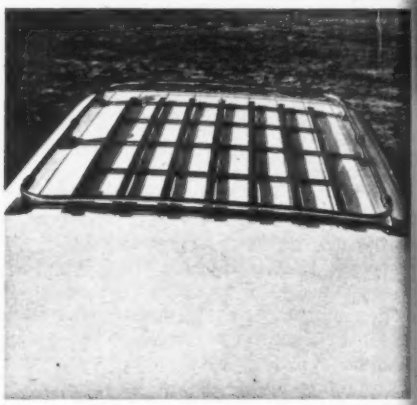
BIG, comfortable and agile Pontiac Safari station wagon sports a 122-inch wheelbase.

MAGI-CRUISE (arrow) keeps throttle set at pre-determined position and conserves fuel.



SPARE tire (arrow) is neatly tucked under floor panel at the rear end of the wagon.

DOME light is new, has small spot that can be directed to any part of the interior.



ROOF RACK is handy for carrying Granny's saddle, polo sticks and equipment trunks.

Hasinger and Jonas in the back screaming because their feet were being bounced off the floor. Actually rocks were hitting the floorboard under the back seat so hard that they made dozens of dents that will never be removed.

The clearance on this Pontiac is far from exceptional but the underside was rugged and now looks as if some wit had been lobbing hand grenades under the wheels. There are dozens of dents and scars on the crankcase, transmission housing, rear axle and the frame members themselves. If Pete Estes, Pontiac's Chief Engineer who has charge of knitting these things together, could have seen us, I think his eyes would have bugged right out to his lower vest button. Here was the most deluxe station wagon Pontiac makes, loaded with everything from air conditioning and power seats to power windows—a real creampuff—doing work that would have a Jeep puffing and yelling for a winch. Frankly, I had not planned a test quite this rugged, because we stood an excellent chance of taking a long hike home if one of those rocks had sprung a leak in the crankcase or ripped out the transmission.

After two days of this, our pack of dogs stumbled onto a boar. A quick shot in the back of the head after a rugged chase and the hunt was over. There was no phone at the lodge but a messenger [*Continued on page* 176]

LEATHER upholstery, like the body paint, is in new condition after six years of use.

ENGINE hadn't burned over a pint of oil between changes at 3,000-mile intervals.

TOM in '53 Lincoln he sold to T. S. Harris, right. Car can still top 110 mph easily.

ONE snowy night in early January about seven years ago, I took delivery of a brand-new Lincoln Capri and headed from Dearborn, Mich. to Florida. This was no ordinary Lincoln but a "Mexican" Lincoln—same as the ones that won the Mexican Road Race. The valves had solid lifters, for example (which some Michigan lunatics said "won't stand up"). The suspension was heavy-duty export-type and the upholstery was all magnificent leather. The engine building was personally supervised by Vic Raviolo, Ford's chief engine man.

It was as masculine a sedan as ever built in this country. Here was rugged, functional machinery without power steering, electric windows or air conditioning—strictly a "go machine" built for me to be used in the Daytona Beach Speed Trials. It did have one weakness, the only one I ever found in the car: the lube point of the bushing at the rear of the generator was so hard to reach, even when the engine was cold, that it rarely received any lubrication.

This generator bushing let me down just as I entered the trap on my downwind official [*Continued on page* 190]

McCAHILL TESTS

THE DODGE DART

"A red-hot threat to the Big Three leaders" says Tom of this all-new, highly roadable rig.

By Tom McCahill

THE Dart is an entirely new American automobile. In some models it utilizes the power plants of its big brother, the full-blown Dodge, but in the economy version the car is original even to a freshly-born six-cylinder engine which it will share with Plymouth. It is installed at a 30-degree angle from dead center, similar to the Valiant and Plymouth Six engine mountings—a practice used by Studebaker at Indianapolis more than a quarter-century ago and also by that most famous of all Kraut buckets, Mercedes-Benz. In addition, the Dart employs Unibody construction and is vat-dipped in a series of pickling solutions to stave off rust and corrosion.

According to the publicity releases, the new Dodge Dart "is the first car in 31 years to enter an entire new line of automobiles into the low-priced American field." Well, maybe so—if you have forgotten such names as the 1960 Falcon, Corvair or Valiant and the somewhat older Rambler and Lark. The publicity boys will undoubtedly argue these other cars are all compact jobs whereas the new Dart is on a 118-inch wheelbase, which is almost as big as today's Chevrolet, Ford and Plymouth.

However, let's ignore the "first" claims and take a look at the Dart for what it really is. It is a red-hot threat to the Big Three leaders. The Dart is not likely to blast Chevy, Ford or Plymouth from their present positions in the industry. But, as they say in Costello's Third Avenue saloon, the Dart could very well "whip a lot of froth off the head of the beer." Where it will rank in the industry a year from now depends on a lot of factors such as strikes, sales outlets and, most im-

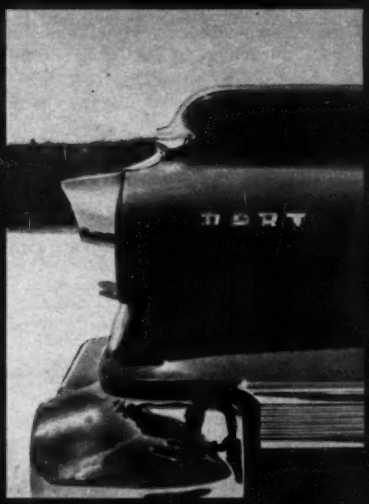
SPEEDOMETER is mounted high, is easy to read. Wheel does not block view of dash.

DART roadability, handling are first-rate due to torsion-bar suspension.

portant of all, public acceptance.

Back in the '20's before Plymouth got off the rock, Dodge was comfortably nestled for many years in the Number Three slot later held by Plymouth. The chances of dislodging Plymouth from its current perch during this model year are about as likely as a blizzard at the Panama Canal but the Dart may cut deeply into Plymouth's sales because of its unique size. It might be described as a giant compact car, or a compact Big Three car. It is about an inch shorter than Plymouth in overall length and several inches scantier than Ford. Overall height of 54.8 inches and the interior dimensions of 34.5 inches headroom and 63 inches of tailroom make it a big car on the inside.

On the road, due to its size, the Dart is effortless to drive. When coupled with the optional big Dodge D-500 engine displacing 383 cubic inches and two four-barrel carburetors, it should be able to chew around a race course with enough stuff to turn the humidity into steam. When I tested the Dart at the Chrysler Proving Grounds my test car was the 318-cubic-inch small V8 Phoenix model with a four-barrel carburetor. This job also can be had with a two-barrel carburetor for slightly more

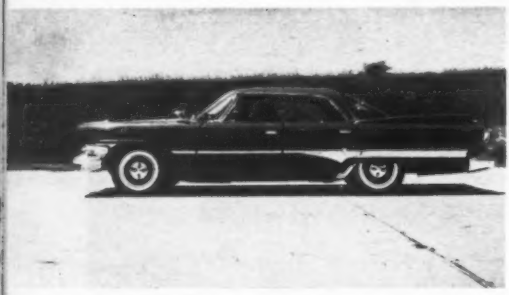


HOOD of chrome surrounds taillights: "Dart" is emblazoned on rear fenders.

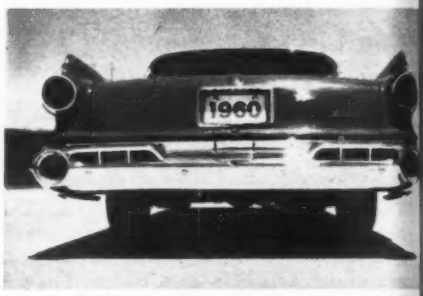
economy. With this comparatively small mill, it banged out 0-60 mph in 9.8 seconds and 0-30 mph in 3.9 seconds. So you won't need the imagination of Jules Verne to figure out that with the big 383-cubic-inch stroker and two four-barrel carburetors, plus higher compression ratio, a Dart should make a helluva ridge runner for the moonshine boys.

The interior is loaded with a lot of nice little goodies including a foam rubber headlining to cradle your cranium if you do any driving upside down. The legroom both in front and back is on the comfortable side. Our car also had a pie-plate clock right off a rocket's instrument panel. Even the speedometer had a look- [*Continued on page* 179]

PLASTIC people aided in seat design. Tom says legroom is on the comfortable side.



STYLING of the 118-inch wheelbase Dart is trim and attractive, in McCahill's opinion.



REAR END features gas tank filler cap in the bumper, neatly recessed backup lights.

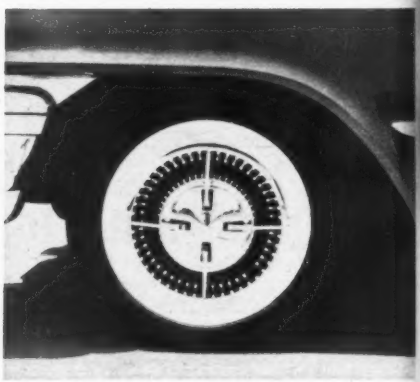
TEST CAR SPECS

MODEL TESTED: **1960 Dart Phoenix four-door hardtop**

ENGINE: **V8** cyls; **318** cubic ins; **255** brake hp; **345** ft-lbs max torque; **9** to **1** compression ratio. Bore **3.91** ins; stroke **3.31** ins. Fuel required: **Regular.** Standard axle ratio: **2.93.** Wheelbase **118** ins; length **208.8** ins; height **54.8** ins; width **78** ins; front tread **61.5** ins; rear tread **60.2** ins. Weight **3,855** lbs. Gas tank capacity **20** gals. Turning circle diameter **45.2** ft. Tire size **7.50X14.**

PRICE (without optionals): **$2,892**

PERFORMANCE: **0-30** mph, **3.9** secs; **0-50** mph, **7.4** secs; **0-60** mph, **9.8** secs; **0-70** mph, **13** secs; **40-60** mph, **5** secs. Top speed **110**-plus mph. All times recorded on corrected speedometer.

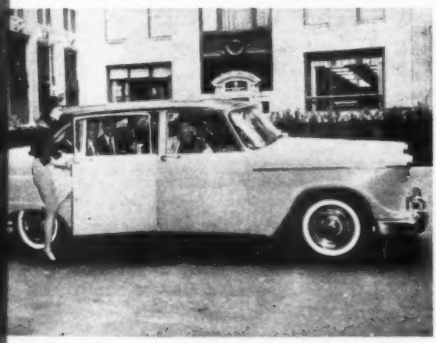


DODGE DART comes with 7.50x14-inch tires but you can order optional 8.00x14 shoes.

Now See This!

COMMUTER'S HELICOPTER with a cruising speed of 60 mph is the new product of Bensen Aircraft Corp. of Raleigh-Durham Airport, which serves the friendly cities of Raleigh, N. C., and Durham, N. C. President Igor Bensen says the Little Zipster (not Zipper) will sell for $6,995. Kits will sell at prices from $980 to $4,500, depending on degree of completion. Mill: 60-hp Merc.

TEACHING MACHINE introduced by West-Design, a division of U. S. Industries, Inc., is shown here tutoring an industrial technician in certain aspects of his work. On the screen appear images of parts: selecting certain of the images in answer to questions on the page in front of him is how the student does his work. This method tests and tutors, records time used and mistakes.

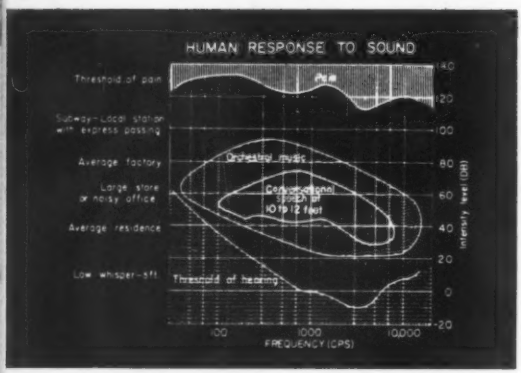


EIGHT-PASSENGER CAR made by Checker Motor, maker of Checker Taxicabs, is just 199½ inches long, about ten inches shorter than the average American car. Yet if you will count the guys and dolls you will see that there will be eight people manning the seats in half a mo, counting two jump seats. It has a six-cylinder Continental motor. $2,540.

WORLD'S "CHEAPEST CAR" will be the English Ford Popular, which will sell for about $975. Aimed at the European market, it is essentially an economy version of the two-door Ford Anglia. It has a four-cylinder mill that gets up 36 hp; it has also four seats, a top speed of 70 mph, a cruising speed of 60 mph while making a big 32 mpg.

RCA SOUND ABSORBER detects oncoming sound waves, sends out its own to "cancel" them.

AMERICA'S BIGGEST RACKET



INTENSITY LEVELS of sound are rated in decibels. At around 130 they cause pain.

Photo from New York University Engineering Research Review

By Lester David

NOISE can deafen you. It can knock down skyscrapers. The latest word, from the Los Angeles firm James Lansing Sound, Inc., is that they now have a noise that will not only kill you but actually homogenize you, like a super-scrambled egg or a jar of skin cream. This noise is for testing electronic widgets and will never be used in anger, say its makers, but it shows what noise can do.

But we needn't wait to be destroyed

by a sound weapon of the future. The din of modern life is claiming its toll right now.

Injuries by sound fall roughly into two categories. There's the indirect injury; Johnny yells "Boo!" and little Mary falls and bumps her head. And there's the type of injury mentioned above: sound doing direct physical damage to human tissues.

The indirect type of sound injury is as dangerous as it is common. Here are examples from real life:

A man hurried from his job at a factory to his car. As he drove out of the lot his hands were trembling, his forehead was cold and sweaty. Usually he sat in his car 15 minutes before driving off—to let the effect of seven hours of factory noise wear off. But that day he wanted to get to a store before it closed. Two blocks away he shot through a red light into a truck. He ended up in the hospital with a broken back.

The blast of a car horn behind him rattled a young cyclist in an Ohio city, making him swerve into an oncoming car. He was killed.

A secretary in a business office was carrying a pot of boiling water to her desk to make instant coffee when the noise of the building going up next door—it had been going on all day—got to her. "That damn noise!" she snapped, and made a gesture of exasperation that sent scalding liquid down the neck of a young stenographer.

Noise around homes leads to many accidents. A housewife, dazed by the roar of planes and trucks, gave her baby a spoonful of Grandma's medicine. Only a timely trip to the hospital saved the youngster. A noise expert, commenting on this incident, told me that in areas where noise abatement programs are instituted, accidents take a sudden drop.

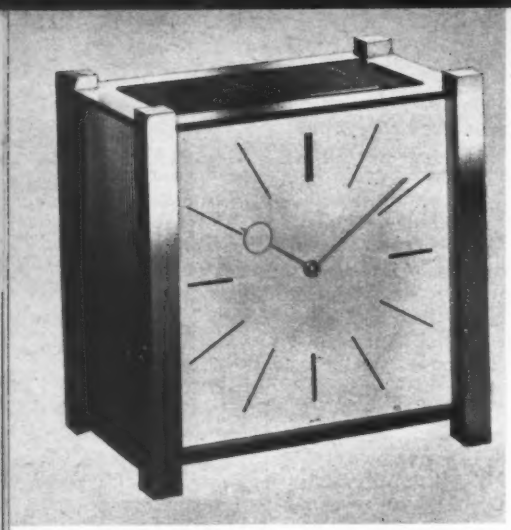
A few years ago Memphis, Tenn., was a shrill, loud city—a bedlam of horns, exhausts, juke boxes, radios. Then a municipal noise abatement drive shushed the metropolis to the point where Memphis can call herself America's quietest city. The year before the campaign started, 36 died and 1,029 were hurt in traffic accidents. After 12 months of anti-noise action, the number of deaths dropped to 16, injuries to 855.

The other type of noise injury—the immediate harm done to the human organism by sound waves—becomes more and more [*Continued on page* 188]

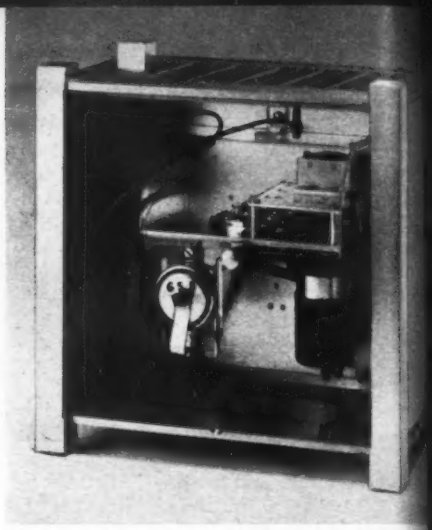
SOUND-TESTING a power transformer in echoless room: a GE program to cut noise.

NOISE METER used in plants to get decibel readings helps engineers to lower noise.

Mine Safety Appliances Co., Pittsburgh, Pa.



FRONT VIEW of solar clock. It can store enough energy to run a year in darkness.



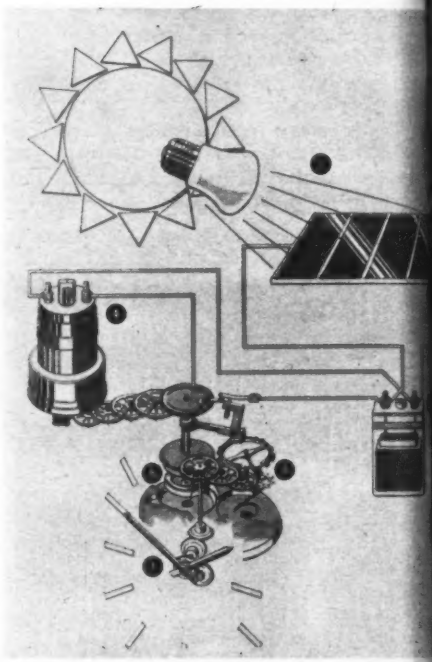
BACK VIEW shows small mechanism. The clock is also made in an ornate version.

CLOCK THAT RUNS ON LIGHT

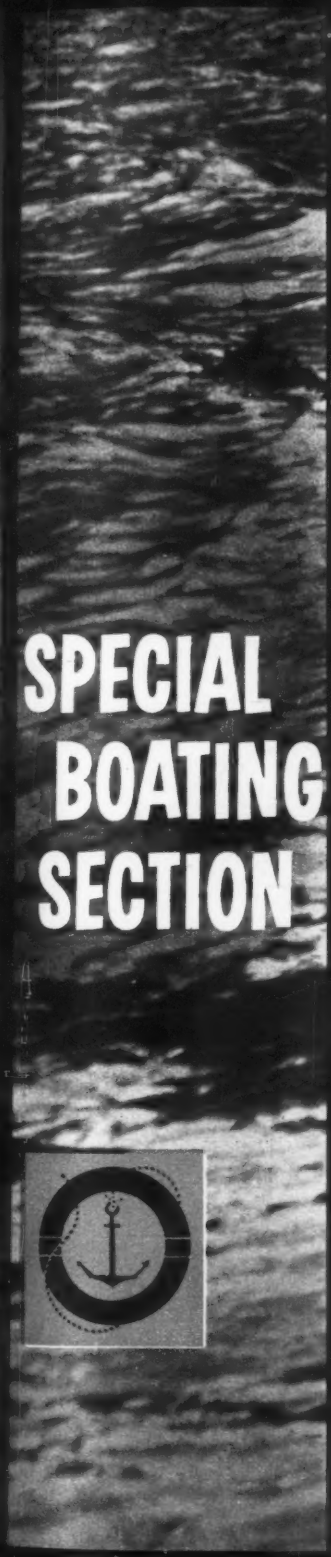
THE closest thing to practical perpetual motion is this solar-powered clock devised by watchmakers in Geneva. Using three different energy systems, the clock can operate on only four hours of dim light per day (natural or artificial) but has a battery that can store up enough energy to run the clock for a year in total darkness!

Light falls on photo-electric cells and is transformed into electrical energy, charging a micro-accumulator (battery) capable of driving a very small motor. The motor rewinds the spring of a normal clock movement. Thus light energy becomes electrical energy which becomes mechanical energy.

Key to the whole device is the tiny micro-motor—a Swiss-made marvel that weighs only 2.65 ounces but can develop a force of 20 microwatts. •



HOW IT WORKS: Light (1) falls on photo-electric cells (2) which convert it to electricity, storing the battery (3). A small electric motor (4) winds a barrel spring (5) which in turn works the clock movement (6). Hands are turned by normal gears (7).



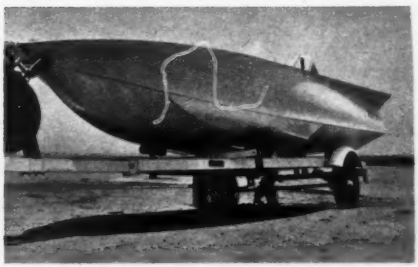
Family Racer

JET STAR will top 60 mph with 70-hp outboard engine, is roomy enough for family.

JET STAR is a family racer that was officially clocked at 62.88 mph using a 70-hp Mercury engine over a standing-start quarter-mile. The fast new boat has the three-point hull of a racing hydroplane yet is roomy and comfortable enough for a family. Patents are pending on the craft.

The sleek all-fiber glass boat has just three contacts with the water—a small area of the stern and the trailing edges of the sponsons, hull-like projections at each side of the bottom.

Jet Star corners best at full throttle and bites into turns with barely any slide-slipping. It comes in 15, 16 and 17-foot lengths. The 15-footer is 440 pounds. Prices start at $895. Anthony Power Craft, Southgate, Calif. •



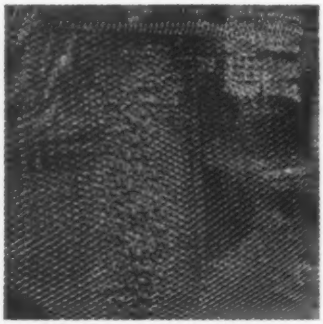
THREE-POINT hull bottom is incorporated in design—stern and two bottom sponsons.

CONTINUED . . .

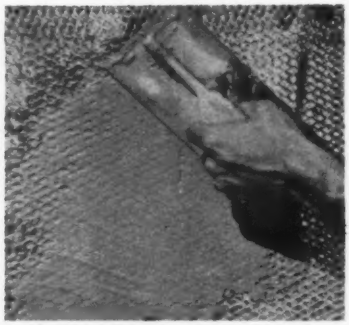
CEMENT RUNABOUT

The plans for this boat start: "Take five bags of cement . . ." But surprisingly it floats and handles well at gentle speeds.

BOAT FRAME is flexible conduit tubing fastened to three layers of shaped galvanized screening.

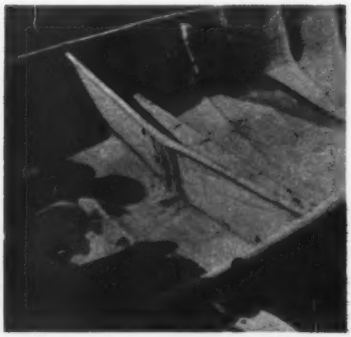


CONCRETE, with densifier and waterproofing added, is pressed through screening from inside.



SMOOTHING of concrete on outside fills in the mesh completely and gives the final shape to the hull.

TRANSOM is made with heavier tubing and four layers of mesh screen. Note reinforcing knee.

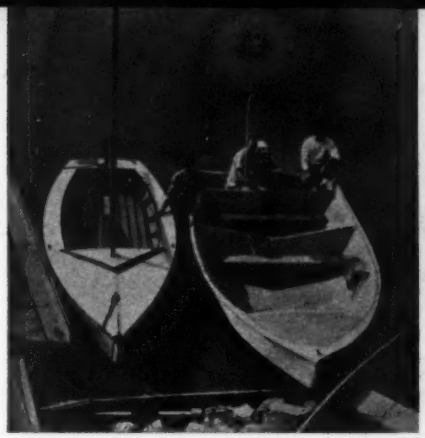


SEAT BACK is actually watertight bulkhead. The boat has three compartments for added safety afloat.

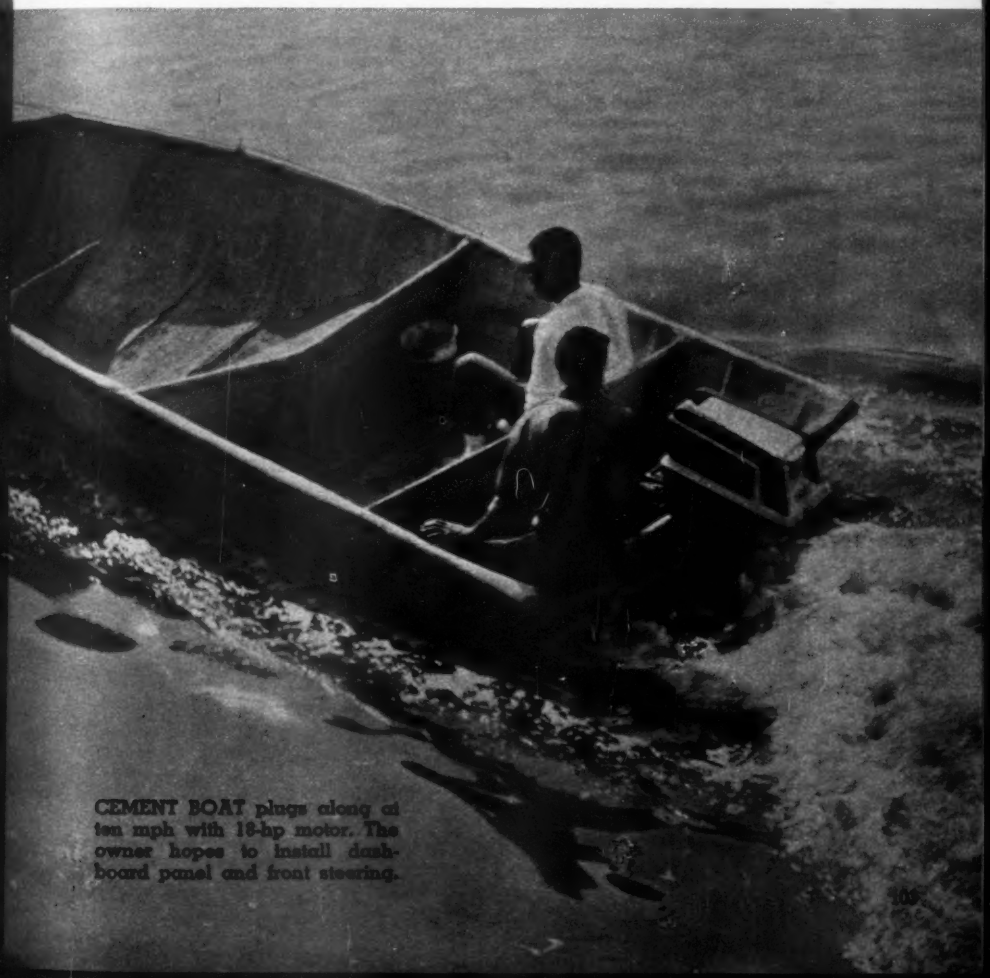
THEY laughed when Dominick Luca launched his cement boat in the Passaic River but when the 15-ft., 1000-lb. runabout chugged along at a modest ten mph, snickers turned to admiring chuckles.

Luca, a building contractor of Paterson, N. J., heard how cement boats were built during the World War II emergency, thought he'd try it himself.

Frame of the boat is made of electricians' flexible conduit tubing. A hull of three layers of galvanized screening is shaped, then concrete is forced through from the inside and smoothed over on the outside of the mesh. A coat of waterproof paint completes this slow but sturdy craft. •



BEAM is seven ft.; length is 15 ft. The boat draws ten inches of water. Hull is finished with a white waterproof paint.



CEMENT BOAT plugs along at ten mph with 18-hp motor. The owner hopes to install dashboard panel and front steering.

LOW CLEARANCE doesn't faze the driver who's toting a Totem Boat atop his wagon.

UNFOLDING takes five minutes—and turns the kit into a stable, maneuverable boat.

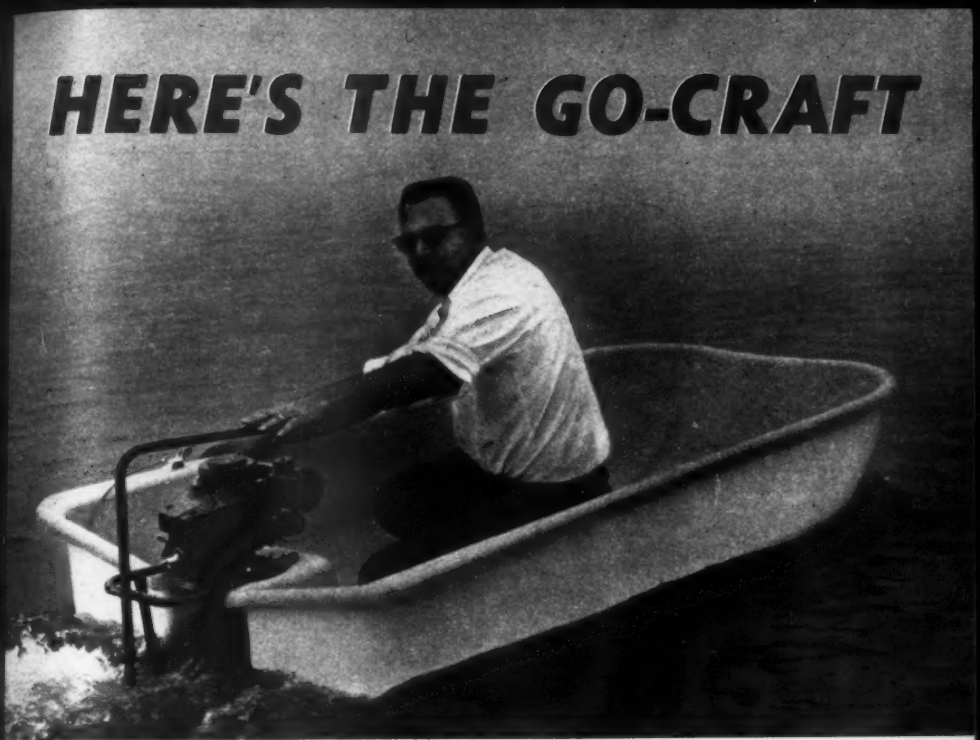
FOLDING CARTOP BOAT

THE Totem foldable boat is made of sturdy marine plywood with leak-proof seams of nylon-neoprene vulcanized to the plywood and riveted at all joints. Totem comes in three models: eight-ft. Scout—$250; eight-ft. Hunter—$260; 12-ft. Trailblazer—$300. Trailblazer can take a 25-hp motor; others stick to ten hp. Totem Boats, 235 15th St., San Francisco 3, Calif. •

FULLY-SHAPED HULL combined with foldability is the boat's big patented feature.

DRY RIDE is insured by nylon-neoprene seams, high freeboard.

HERE'S THE GO-CRAFT



POWERED BATHTUB will do 13 knots, throttles down to a whispering low speed for trolling.

FROM the moment they start spraying the glass-fiber-flock-and-resin mixture into the mold, until they pull the finished hull, it takes one hour to make a Go-Craft. Put the little 2.5 hp lawn mower-type motor on it and you have a light and useful fishing boat. My-On Products, 407 Commercial Center, Beverly Hills, Calif., makes the Go-Craft. Cost: about $150. •

SPRAYING fiber and resin mixture into the mold.

REVVING motor out of water is OK; not so with outboards.

65 POUNDS with motor is the ticket for solo jaunts.

HOMEMADE STEAMER

This 33-ft. cabin cruiser took five years to make—and no plans or blueprints were used!

THE TRIJON steams along proudly in Hempstead Harbor, Long Island. Total cost: about $5000.

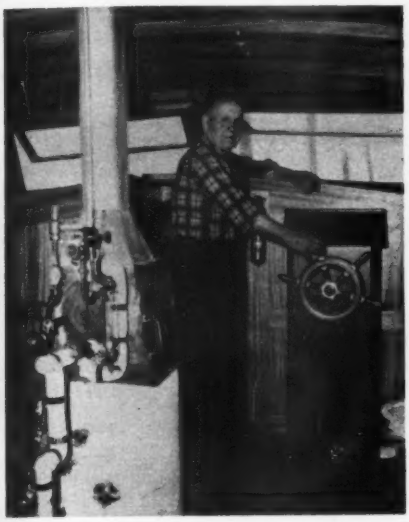
AMERICA'S tiny fleet of privately owned steam cruisers was increased by one recently with the launching of the Trijon in Glen Cove Creek, Long Island.

Trijon was fashioned completely by hand by John A. Nernoff, a 76-year-old steam engineer, without benefit of plans or blueprints. The boat was built in the backyard of Mr. Nernoff's home in Glen Head and took about five years of spare-time work and $5000 to complete.

The cabin cruiser is 33 ft. long with a beam of ten ft. six in. An upright boiler burns five lbs. of soft coal per mile to generate 450 lbs. of pressure, operating a 1913 marine compound engine salvaged from the first boat Mr. Nernoff

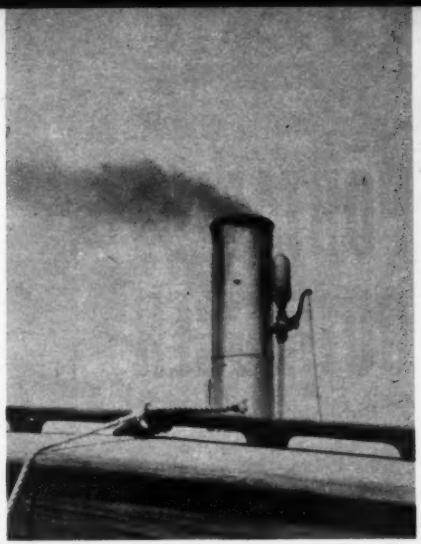
built, in 1915. Trijon is capable of cruising 200 miles on a single coaling.

The seven-ton craft is made of teak, mahogany and white cedar, trimmed with chrome. It is a handsome addition to America's growing fleet of privately-owned steam launches. •



CAPTAIN NERNOFF at the wheel. The 76-year-old engineer built boat and boiler.

STEAM BOILER generates 450 lbs. pressure to run this 1913 marine compound engine.



STEAM WHISTLE toots merrily to signal Trijon's approach. Boat can do six knots.

SOFT COAL is carried in bunker beneath the deck. Trijon uses five lbs. per mile.

STOKING UP. Captain Nernoff figures the boat can do 200 miles on single fueling.

PORTABLE OUTRIGGER

OUTRIGGER and hull are filled with special foam which gives additional buoyancy to this new boat.

PORTABLE canoe can be transported to water on car roof. Assembly of the craft takes 20 minutes.

HULL, outrigger and mast of this portable new canoe can be transported on a car roof. The 200-pound, fiberglass craft is designed for ocean and inland waterways. It will carry up to eight passengers and travel 15 knots with its wind-filled sails. •

IAKUS are lashed to 13-foot outrigger with cotton cord. The iakus connect the hull to the outrigger.

IAKUS are bolted to gunnels of 16-ft. craft. Emig Boat Works of Costa Mesa, Calif.

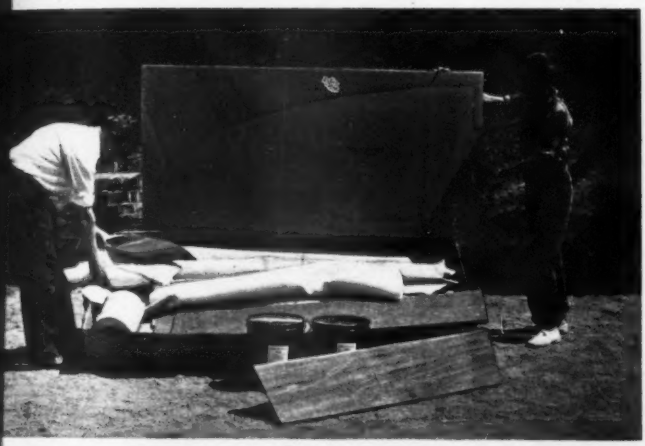
MAST goes up. Hiking boards are seats, aid in balancing.

COVER STORY

Revolutionary "SOCK BOAT"

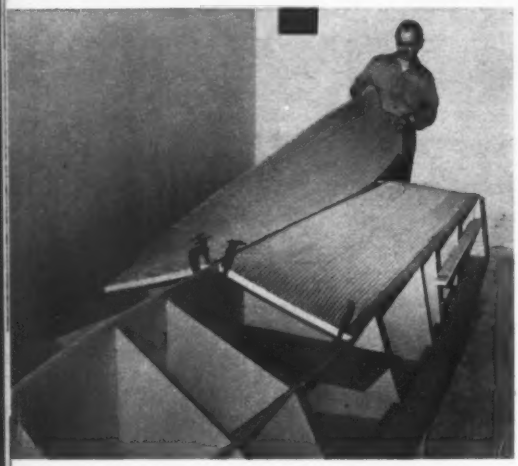
HERE is the do-it-yourself glass fiber boat that people have been dreaming of. The Sock Boat is so called because you start it by pulling a big "sock" of cotton jersey over a die-cut corrugated paper framework. When stretched over the framework the sock takes on the curves of a well-designed boat hull. Then the cloth is resined and allowed to cure to a drumhead firmness; on top of this go three layers of glass fiber.

The Sock Boat is literally built backwards. The decks, gunwales and coamings are glued in place before the hull



THE KIT contains all the makings of a top-performance outboard runabout. The Sock Boat Corporation of Cold Spring Harbor, Long Island, N. Y., is the owner of the patent on the process by which rank amateurs start by opening the box and within the week can be out on the water in their boat.

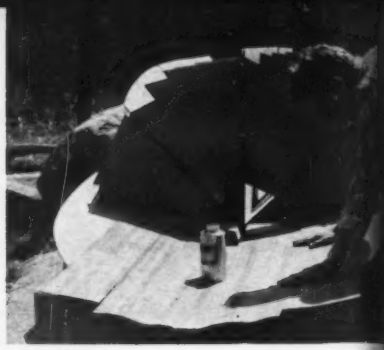
DIE-CUT FRAMEWORK of corrugated paper goes into place. Carton forms working base.



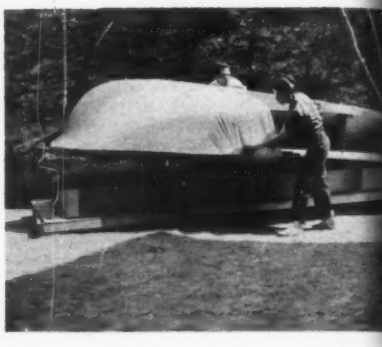
HONEYCOMB sections, like those used in planes, give hull great structural strength.

is built. The floor and mahogany seats go in place before the sock is drawn on. When the hull is finished and the corrugated framework torn out, nothing remains but to install the steering wheel and the hardware—and to send out for a demi-bottle of domestic champagne. For a name you can go dynamic, like *Zowie!* Or perhaps sentimental, like *Myrtgus.*

The Sock Boat shown here is 15 feet,



DECK FIRST is the rule for this new w to build a boat. Deck is mahogany ve



SOCK goes on after the honeycomb pan (photo at left) have been glued in pla

four inches long, has a 62½-inch beam 18½-inch freeboard, 45-inch deck. Th kit it comes in costs $395 f.o.b. Co Spring Harbor, N. Y., and it include the framework, sock, shaped tran som, mahogany seats, decks, gunwale dashboard, coamings, gunwale rub rail steering wheel, 52-inch wraparoun windshield. And enough glass fiber resin, catalyst and white hull pigmen premixed in resin to carry out th instructions in the instruction book Besides the 15-footer, Sock Boat ha dinghy kits. The smallest, six and one-half feet long, costs $90. It needs little gift for prophecy to foresee many type of boats being built this way in the future. Sock Boat has done something big to boating; to the disgust of the old-time highly skilled boatbuilder, perhaps, it has made high-performance hull-building possible for the rankest amateur. •

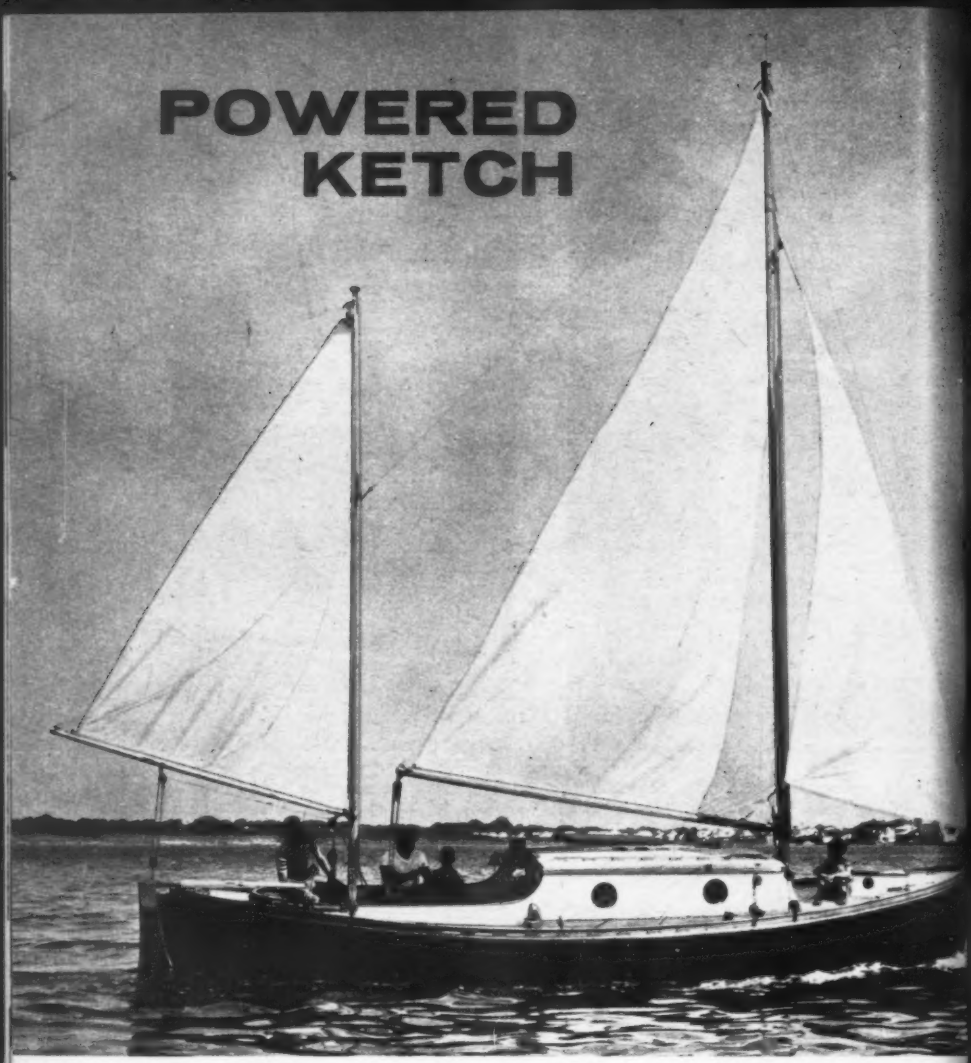
RESIN is smoothed into the glass fiber cloth, which goes on over hardened sock.

TRIMMING excess material from gunwales. Final coat of resin gives permanent color.

LAST STEP (except for installing the hardware) is tearing out die-cut framework.

BON VOYAGE! The quickly, easily built Sock will give years of truly trouble-free boating fun.

POWERED KETCH



"SELL it!" That's the blunt advice Morris Nepo got from a naval architect after he had shelled out $150 for an old 30-ft. Navy whaleboat. But Nepo, a long-time model sailboat builder, went to work instead.

He got plans for a ketch from the Navy, then built a model of his boat-to-be. He ripped out the cheese-box cabin and built one of his own design. He built a cockpit, bridge deck, forward hatch and virtually everything else that went into his craft, including masts, deadeyes, pulleys—and ship's bell!

The 39-year-old Massapequa Park, N. Y. teacher finally launched the boat he had built in his backyard (after tearing down part of his garage to get it out to the street). It is a ketch-rigged cruising sailboat with auxiliary power, sturdy and comfortable enough to accommodate Nepo, his wife and two young sons.

The builder estimates the boat cost him about $3,000 plus the ten-hour days he put in all summer, including weekends. But all his labor adds up to a lot of satisfaction for his family and himself. They're looking forward to many fun-filled hours afloat. •

RUDDER is fitted to ketch to be sure it will be shipshape in water. Nepo built it too.

BREAKTHROUGH. There was no room on either side of Nepo's house to ease his craft into the street. He had to remove the rear wall of his garage to facilitate its passage.

SHAPING up. Here the 30-foot ketch needs only its masts and 360 square feet of sail.

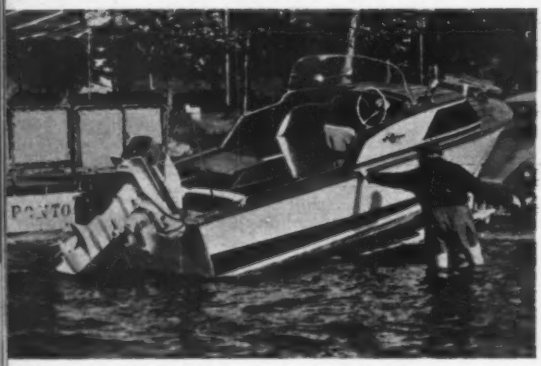
MOCK-UP of engine was fashioned by Nepo before he put in the real one, a 400-pound, four-cylinder, 16-hp Palmer engine which he hoisted into boat and installed himself.

DOWN the Nepo-made forward hatch goes youngster.

BELAYING pins, pulleys, etc., were made by builder.

KETCH model. This was made by Nepo before the big one.

The 1960 Boat



CRESTLINER 19-ft. Mandalay has 80½-in. beam, weighs about 930 lbs. Hull is aluminum and cabin is Fiberglas. Cost, $1,995.

Crestliner, Little Falls, Minn. (Scott photo)

WINNER Fiberglas Sun'n'Ski is 14½ ft. has a 66-in. beam, weighs 495 lbs., takes motors up to 70 hp. $845, ladder included.

Winner Mfg. Co., West Trenton, N. J.

CRUISERS, INC. Commander has two bunks, is 17 ft. with 81-in. beam. Lapstrake plywood boat is fully equipped, costs $1,495.

Cruisers, Inc., 804 Pecor St., Oconto, Wis.

WHIRLWIND molded mahogany ply cruiser is 20 ft., has 94-in. beam. With 3 bunks, head, fully equipped galley, she's $2,475.

Molded Prod., Inc., Box 117, Cockeysville, Md.

LONE STAR Monterey is Fiberglas, has a capacity of four, weighs 400 lbs. Hull is 14 ft. with a 62-in. beam. Price is $595.

Lone Star Boat Co., 1020 E. Main St., Grand Prairie, Tex.

AERO-CRAFT Adventurer is aluminum, has length of 17 ft., 2 in. and a 78-in. beam, weighs 575 lbs. Price as shown is $1,19

Aero-Craft Boats, St. Charles, Mich.

CUSTOM CRAFT Sting Ray Ski Boat is Fiberglas. The 15-footer has a 66-in. beam, reversible rear seats. As pictured, $895.

Custom Craft, 1700 Niagara St., Buffalo 7, N. Y.

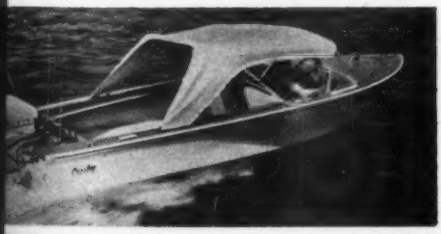
GLASSPAR Seafair Sedan has a length of 17 ft., an 84-in. beam and weighs 875 lbs. Fiberglas, it has two bunks. Cost, $1,895.

Glasspar Co., 19101 Newport Ave., Santa Ana, Calif. (Scott photo)

GRUMMAN Fisherman weighs 160 lbs. Aluminum hull measures 14 ft., 2 in. around gunwale. Complete as shown, it is $527.75.

Grumman Boats, Inc., 5401 South St., Marathon, N. Y.

CHETEK Regal Contessa is 18¾ ft. in length, has an 85-in. beam and weighs 875 lbs. It's lapstrake plywood. Cost, $1,395.



CROSBY Fish-n-Ski has a molded-in electrical circuit. The Fiberglas hull is 16½ ft. with a 77-in. beam. $1,098, less top.

Crosby Aeromarine Co., Grabill, Ind. (Scott photo)

NORTH AMERICAN Stylemaster is Fiberglas, measures 14 ft. with a 66-in. beam, weighs 420 lbs., takes up to 45 hp. $749.

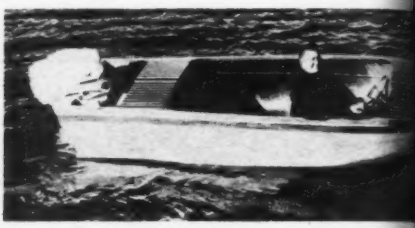
North American Mfg. Corp., Warsaw, Ind.

The 1960 Boats

GLEN L plans, patterns and templates of plywood runabout are $16.25. A frame kit is $88. Length: 13 ft.; beam: 5 ft., 8 in.
Glen L Marine, 9152 E. Rosecrans, Bellflower, Calif.

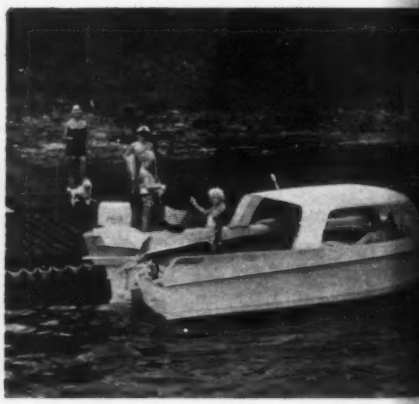
FEATHER CRAFT 18-ft. Islander Expr is aluminum, sleeps two, has 86-in. bea weighs 775 lbs. Equipped, cost is $1,87
Feather Craft, Inc., 450 Bishop St., N. W., Atlanta 13, Ga.

AERO MFG. CORP. builds the Sea Nymph, a 125-lb. car-top boat. The aluminum hull is 14 ft., has a 52-in. beam, sells for $260.
Aero Mfg. Corp., Syracuse, Ind.



PACESHIPS, LTD. 13-footer has 61½-i beam, takes motors up to 35 hp. Built molded birch plywood, it costs about $45
Industrial Shipping Co., Ltd., Mahone Bay, Nova Scotia, Can

ARKANSAS TRAVELER day cruiser is a Fiberglas lapstrake design, 17 ft., 10 in. long with an 86-in. beam. Price is $1,495.
Southwest Mfg. Co., Box 2501, Little Rock, Ark.



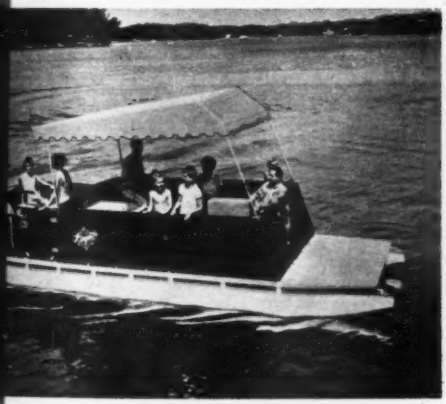
ARISTO-CRAFT Fiberglas Funliner is 1 ft., has 7-ft., 2-in. beam. Price is $93 Detachable Fiberglas hardtop is an extra
Atlanta Boat Works, 665 Pylant St., N.E., Atlanta 6, Ga.

FABUGLAS Commander has side seats that double as bunks. The Fiberglas hull is 15 ft., has a 74-in. beam, sells for $1,149.
Fabuglas Co., 312 Jefferson St., Nashville 8, Tenn.

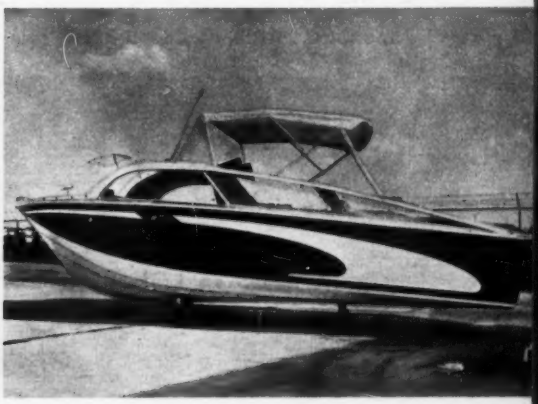
WHITEHOUSE Habanan model has a padded dash and upholstered seats. Fiberglas, it is 14 ft. with 68-in. beam. Cost is $769.
Whitehouse Boat Co., Rt. 3, Box 219, Fort Worth, Tex.

CORRECT CRAFT runabout is planked with mahogany plywood. Length is 17 ft., 3 in. and beam is 82 in. Price is about $1,000.
Correct Craft, Orlando, Fla.

LYMAN 17-footer has a 77-in. beam. The lapstrake plywood hull costs about $1,000. A built-in 25-gallon gas tank is optional.
Lyman Boat Works, 1699 First St., Sandusky, Ohio



KAYOT pontoon boats range in price from $485 to $985 without the top. Model shown is the Captain with deck size of 8x21 ft.
Kaye Yacht Pontoon Boat Co., Mankato 3, Minn.

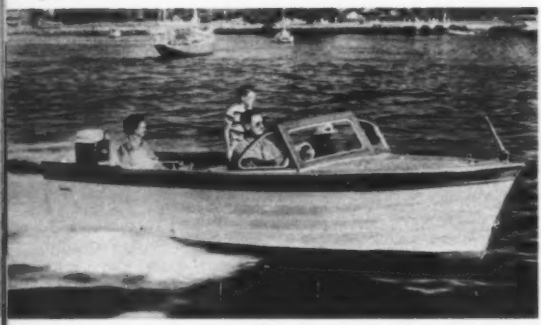


SWITZER CRAFT Gypsie is plywood with a lapstrake bottom. Cabin has two 6½-ft. bunks. With convertible top, it's $1,495.
Switzer Craft, Inc., Box 145, Crystal Lake, Ill.

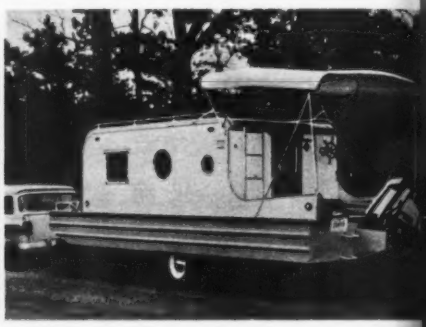
The 1960 Boats

GLASTRON Skiflite is 14 ft., 2 in. with a 62½-in. beam. The Fiberglas boat has a 28-in. depth and weighs 325 lbs. The price is $645.
Glastron Sales, Inc., Box 3104, Austin, Tex.

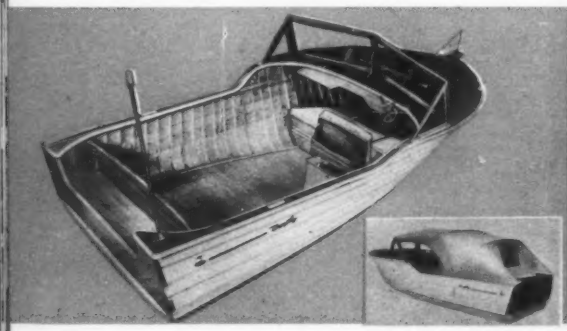
LUGER Fiberglas Californian comes in kit, is 16 ft. with 73½-in. beam. Cost, less accessories, is $548.88, delivered.
Luger Industries, Inc., 9200 Access Rd., Minneapolis, Minn.



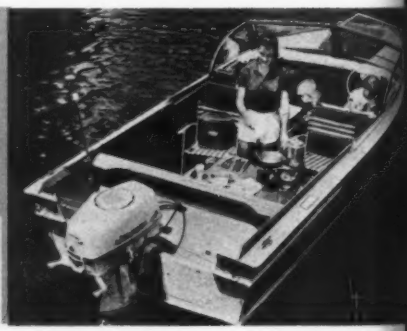
PENN YAN 17¼-ft. Magellan has an 80-in. beam with 36-in. depth amidships. The lapstrake plywood runabout is priced at $995.
Penn Yan Boats, Inc., Penn Yan, New York



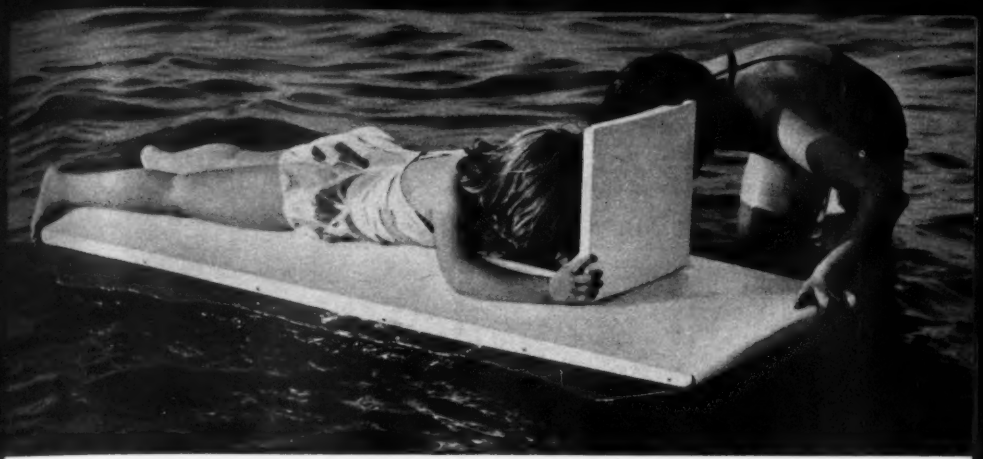
TERRA MARINA amphibious cruiser hull is 21¼ ft. long, 8 ft. wide. Cabin, fully equipped for living, sleeps four. $2,695.
Terra Marina, 2214 Washington Ave., Houston 10, Tex.



DUNPHY Wayfarer has two bunks forward, converts to an enclosed overnighter. It's 19 ft., 2 in. with a 92-in. beam. $1,595.
Dunphy Boat Corp., Box 738, Oshkosh, Wis.



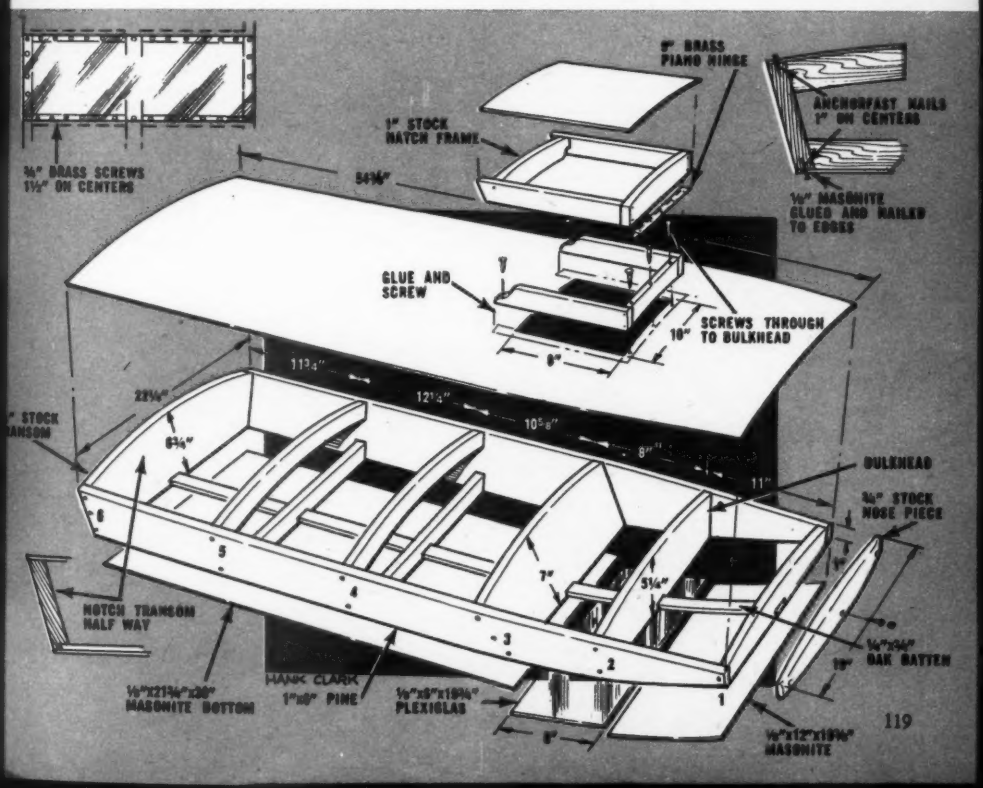
CARTER CRAFT Sea Flite has upholstered seats and bunks, convertible top, toilet. It is 18 ft., 4 in. with 84-in. beam. $1,345.
Carter Craft Corp., Box 591, Panama City, Fla.



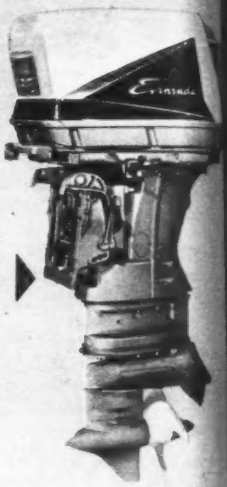
PADDLE BOAT FOR KIDS

JUNIOR frogmen (and girl tadpoles too) will have a splashing good time cavorting on this paddle boat with its Plexiglas window for underwater observations . . . and it can be built in an evening.

Start by marking off the 1x6 pine stock as shown in the drawing. Lay out the bulkheads and frame members, then saw [*Continued on page* 171]



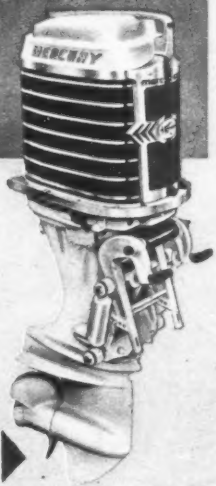
The 1960 Power Plants



EVINRUDE
Model .Starflite II
75 hp....4500 rpm
Cyl 4
Dis....89.46 cu. in.
Start ....Electric
Weight ...216 lbs.
Price $895

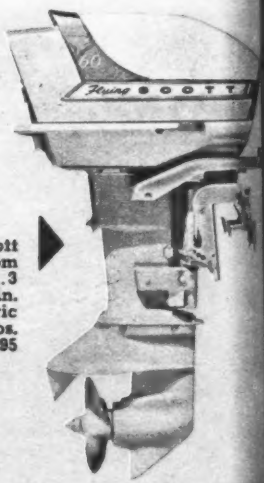
EVINRUDE
Model ..Lightwin
3 hp.....4000 rpm
Cyl 2
Dis....5.28 cu. in.
Start .....Manual
Weight ....33 lbs.
Price $160

SCOTT
Model .Fisherman
7.5 hp...4500 rpm
Dis.....10 cu. in.
Start .....Manual
Weight.....36 lbs.
Price $249.95

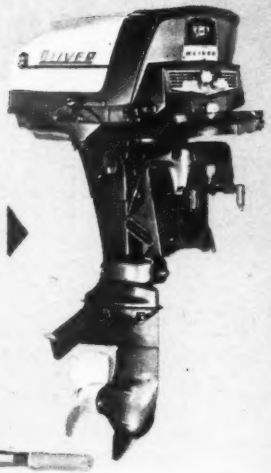


MERCURY
Model.....Merc 100
10 hp.....5200 rpm
Cyl 2
Dis.....18.5 cu. in.
Start...Man. or Elec.
Weight.....77 lbs.
Price $320

MERCURY
Model.....Merc 800
80 hp.....5200 rpm
Cyl 6
Dis.....76 cu. in.
Start .....Electric
Weight.....195 lbs.
Price....Under $1000



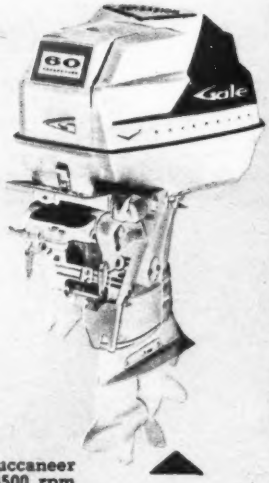
SCOTT
The Flying Scott
60 hp....4500 rpm
Cyl 3
Dis...63.27 cu. in.
Start ....Electric
Weight....168 lbs.
Price $895



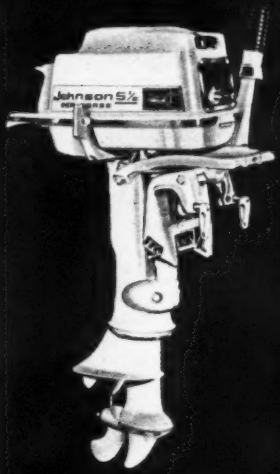
OLIVER
35 hp.....4500 rpm
Cyl 2
Dis.....42.35 cu. in.
Start .....Electric
Weight .....129 lbs.
Price $640

OLIVER
6 hp.....4500 rpm
Cyl 2
Dis.....9.42 cu. in.
Start .....Manual
Weight .....56 lbs.
Price $240

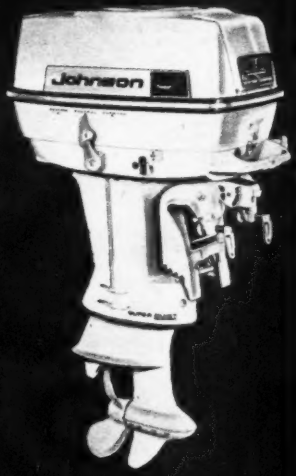
GALE
Model ..Buccaneer
3 hp.....4500 rpm
Cyl 1
Dis.....5.32 cu. in.
Start .....Manual
Weight.....29 lbs.
Price $145



GALE
Model .....Sovereign
60 hp.....4500 rpm
Cyl 4
Dis.....70.7 cu. in.
Start .....Electric
Weight.....205 lbs.
Price $865

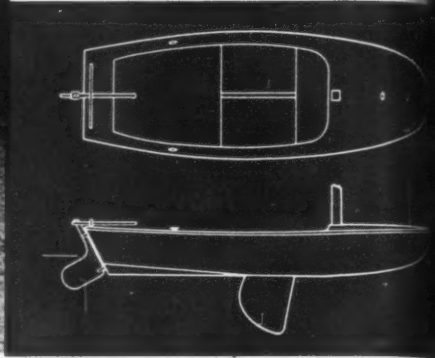


JOHNSON
Model....Sea-Horse 5½
5½ hp.....4000 rpm
Cyl 2
Dis.....8.84 cu. in.
Start .....Manual
Weight.....55½ lbs.
Price $235

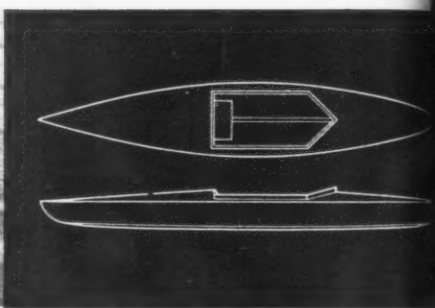


JOHNSON
The Super Sea-Horse 40
40 hp.....4500 rpm
Cyl 2
Dis.....43.9 cu. in.
Start .....Electric
Weight.....139 lbs.
Price $640

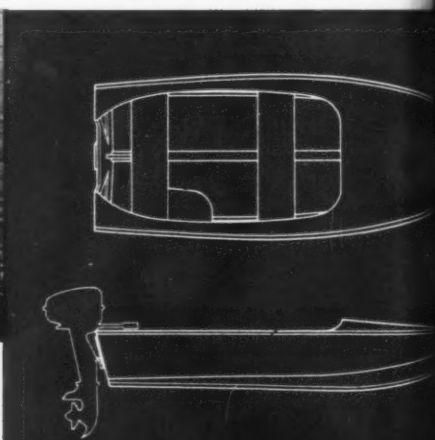
BOATS YOU



NYMPH is a 15½-foot centerboard sloop with a seamless Fiberglas hull. Plans include complete instructions on making the mold necessary for carrying out the laminating process. Complete with her 134 square feet of sail, this 450-lb. day sailer has been built for less than $500. Impervious to rot and weather, Nymph will give many years of maintenance-free service. Plan No. B-228; price: $3.00.*



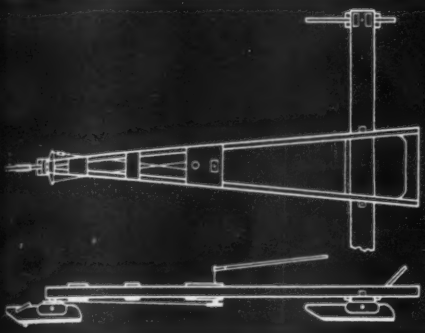
CANVASBACK, an 11¾-foot kayak, can be built for less than $25 in a week of spare-time fun, and because her basic structure has been kept very simple, all steps in the building can be completed using hand tools. Her frames are of spruce or fir over which is tacked the ten-ounce canvas covering. She's easy to paddle and will remain buoyant even when full of water. Plan No. B-238; price: $2.00.*



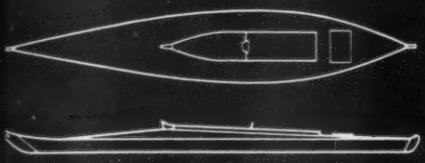
SEA GLIDER, a tough outboard utility, is 11½ feet long with a four-foot beam. A ten-hp motor will plane her, even with three aboard. Fishermen will go for this one. Plan No. B-223; price: $1.00.*

*Remit check or money order to MI Plans Service, Fawcett Bldg., Greenwich, Conn.

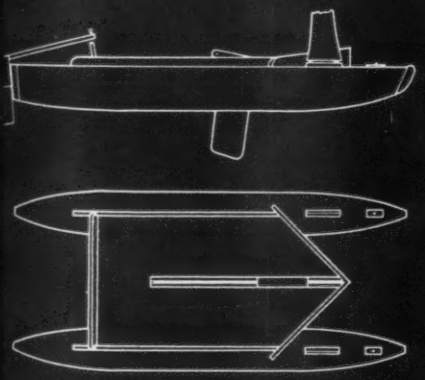
CAN BUILD



FROSTFISH—capable of skimming over the ice at speeds of 40 mph and better—can be put together for $100. She's 16½ feet in length with an eight-foot span and carries 65 square feet of sail. This iceboat is completely portable and can be assembled or dismantled in a matter of minutes. Her total weight of only 120 lbs. is easily carried on top of your car or station wagon. Plan No. B-239; price: $5.00.*



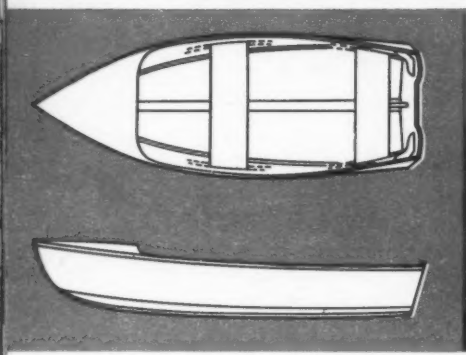
NORTHWIND is a flat-bottom kayak designed to meet the needs of the outdoorsman. Hard to tip and buoyant as a cork, her roomy cockpit accommodates two and there is ample room under the decking for storing camping equipment. Slightly under 20 feet in length and with a 3½-foot beam, this needle-nosed rapids-runner has fir and mahogany ply planking over plywood frames. Plan No. B-236; price: $2.00.*



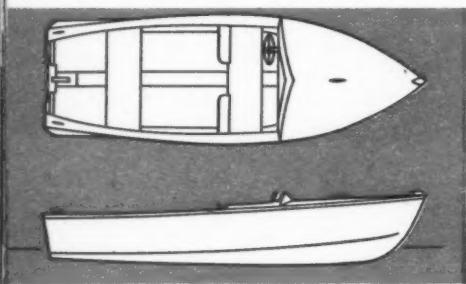
KING KAT, a catamaran with bipod mast and lateen rig, is a 12-footer with a 5½-foot beam. A real fun boat (mostly of plywood) that's easy and inexpensive for the novice to build. Plan No. B-230; price: $3.00.*

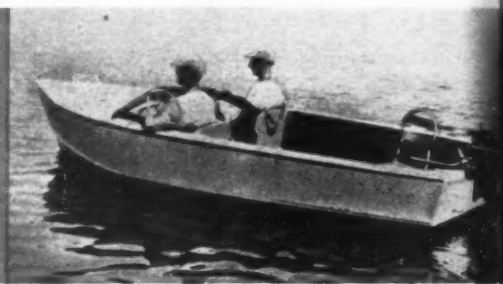
*Remit check or money order to MI Plans Service, Fawcett Bldg., Greenwich, Conn.

BOATS YOU CAN BUILD

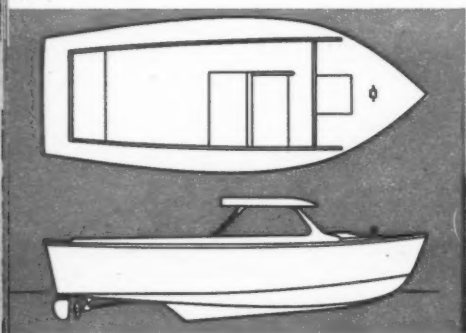


FISHERMAN is as capable of flashing speed as she is of leisurely trolling. She'll take any outboard from the baby lightweights up to the big twenties. While her design calls for plywood planking, many of these craft have been planked with lighter stock that was later covered with canvas. Fisherman is 11½ feet long, has a 4½-foot beam and will accommodate four comfortably. Plan No. 967; price: $1.00*.



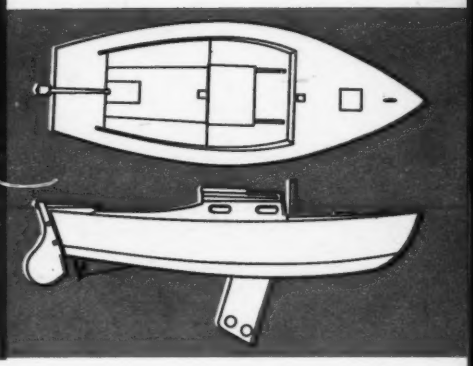


MERRY MAID is a sharp plywood runabout with plenty of speed, roominess and rough-water ability. Her graceful, sweeping sheer makes her a saucy little packet that runs cleanly, banks beautifully and throws her wash well outboard. She's a 15-footer with a 5½-foot beam and a cockpit big enough to allow a brace of fishermen to land the big ones without any crowding. Plan No. B-198; price: $2.00*.

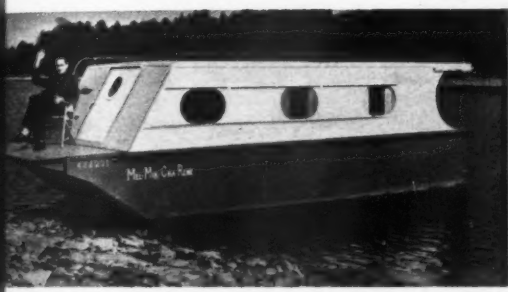


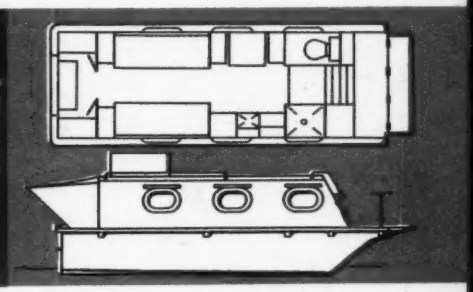
FONTANA converts to an overnighter by snapping her canvas curtains into place. She can take inboards of 10 to 60 hp and do up to 30 mph. Designed for prefabrication, all parts of this plywood-hulled launch can be made in the workshop during the winter and then assembled outside with the advent of warm weather. Fontana is a 17-footer with a seven-foot beam. Plan No. B-201; price: $2.00*.

*Remit check or money order to MI Plans Service, Fawcett Bldg., Greenwich, Conn.

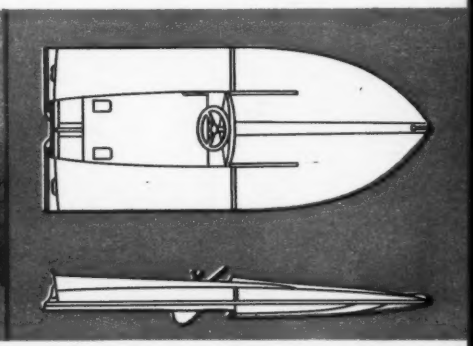


BONNIE II has long been a favorite among amateur boat builders. Eighteen feet long with a seven-foot beam, her V-bottom, plywood-planked hull forms a roomy cockpit and a cabin with two bunks and space for a small galley and head. Carrying 158 square feet of sail, this shallow-draft centerboard sloop is easy to handle, fully dependable and surprisingly fast in a breeze. Plan No. B-233; price: $5.00*.





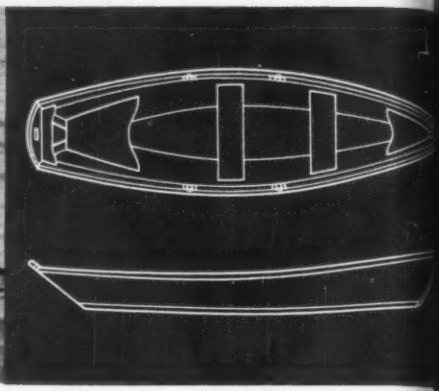
WATER WAGON is a floating home for the whole family. Drawing only 5½ inches, this sun-decked houseboat can navigate waterways that would strand smaller boats. She sleeps four, has a dining area, galley, head—even a shower. Construction is simple, with plywood planking over box-like framing. The perfect vacation boat, she can be powered with one or two outboards. Plan No. B-212; price: $4.00*.



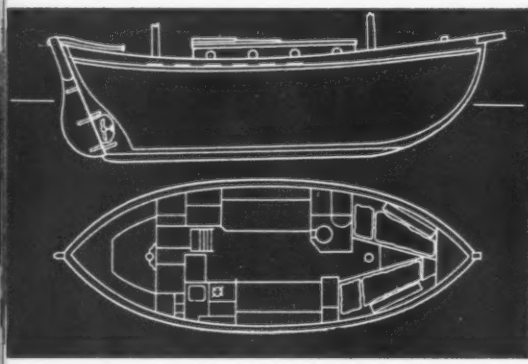
VAMOOSE is a Class B hydroplane that can hit 50 mph using an outboard with a piston displacement of 14 to 20 cubic inches. The hull of this 10½-footer is a single-step job with a flat after plane, substantial non-trips and parallel chines. She weighs just over 100 lbs. Planking is plywood and the forward deck is aircraft-quality fabric. Vamoose has a beam of 4¼ feet. Plan No. B-193; price: $3.00*.

*Remit check or money order to MI Plans Service, Fawcett Bldg., Greenwich, Conn.

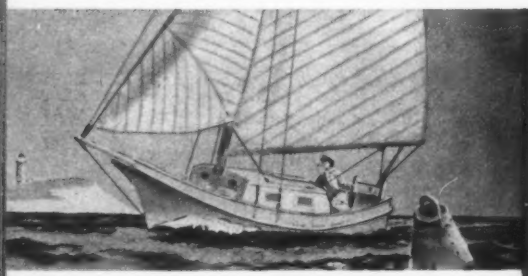
BOATS YOU CAN BUILD

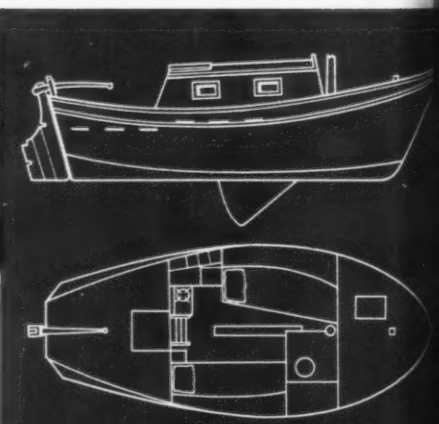


POD is a dory seaworthy and beautiful of line. Her narrow, flat bottom enables her to slice through the water with a minimum of effort by the oarsman. A 15-footer with a 4½-foot beam, highly maneuverable and with flaring sides that keep her safe and dry in a chop, Pod's simple hull requires no framing and is formed by three pieces of marine plywood and an oak transom. Plan No. B-235; price: $2.00*.



TAHITI, most famous of MI boat designs, is at home on all the seas of the world. A superb sailer, this 30-foot, double-ended ketch with galley, head and bunks for four amid the heavy framing of her round-bottom hull, has a nine-foot beam, a four-foot draft, a raised cabin for maximum head room and carries 470 square feet of sail that is easy to handle in any weather. Plan No. B-104; price: $5.00*.

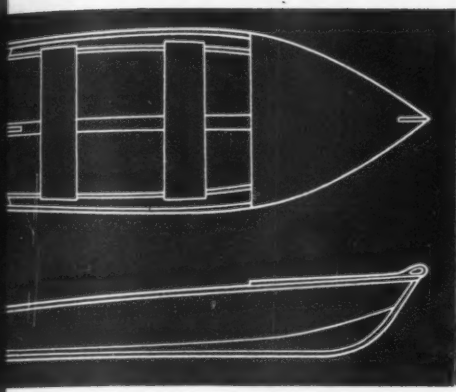


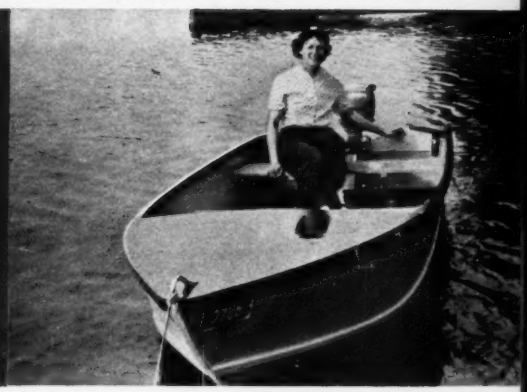


FLYING DUTCHMAN, a flat-bottom sloop having cruising accommodations for two, is 22 feet long with a 9½-foot beam and draws as little as 20½ inches. Plan No. B-159; price: $3.00*.

*Remit check or money order to MI Plans Service, Fawcett Bldg., Greenwich, Conn.

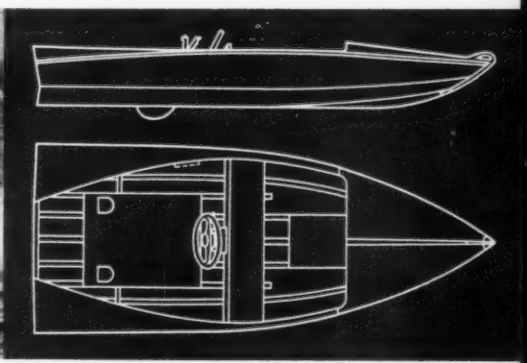
ce through
maneuver-
no framing
ce: $2.00*.



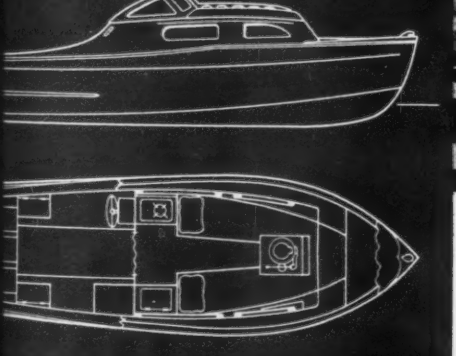


GULL is a frameless, V-bottom cartop boat with seats and deck that serve to brace the plywood hull. Two molds made of scrap lumber, plus stem and transom, are used as a basis for building; these molds are removed when planking is completed. When finished, the boat weighs about 130 lbs. A 7½-hp motor will push this snappy little runabout down the bay at a smart 20 mph. Plan No. B-224; price: $1.00*.

scaler, this
her round-
room and
ce: $5.00*.



JINX is a Class B stock utility racer that can skim over the water at 26 mph with a stock 7-hp kicker, and 33 mph with a 10-hp motor (using a Quicksilver unit, she's capable of higher speeds). High, non-trip chines make her safe in choppy water and on turns. She's just under 11 feet in length with a 4½-foot beam and is made of plywood planking over spruce frames. Plan No. B-222; $2.00*.



CABALLERO, a 19-foot outboard cabin cruiser with a 6½-foot beam is planked with cedar over hardwood frames. Note: boat above has a modified cabin. Plan No. B-208; price: $3.50*.

*Remit check or money order to MI Plans Service, Fawcett Bldg., Greenwich, Conn.

USEFUL BOATING ACCESSORIES

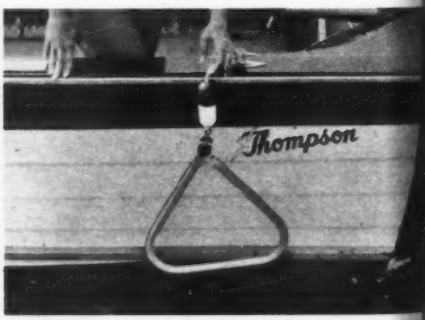
FOOT THROTTLE for outboards has rocker action: you speed up with toe, slow down with heel. It holds any setting. $39.50.
Tempo Products Co., 2062 E. 70th St., Cleveland 3, Ohio

FABRI-VENT boat cover ventilator offers 5½-inch vent area. Made of tough plastic, it lets air in but keeps rain out. $4.95.
Fabri-Form Co., Byesville, Ohio

MARINE FIRST AID KITS in buoyant rust-proof plastic boxes contain all items needed for treating minor injuries. $1.49 and $3.49.
Forest City Prod., Inc., 722 Bolivar Rd., Cleveland 15, Ohio

PORT-A-PADDLE telescopes to 29 inches from four feet. Blade is marine plywood, handle and fittings are aluminum. $9.95.
Boat Names Co., 5910 E. New 40 Hiway, Kansas City, Mo.

ULMERWARM BLANKETS of Dynal and vinyl combine warmth with water repellency and washability. Size: 48x80 in.: $19.50.
Charles Ulmer, Inc., 175 City Island Ave., City Island, N. Y.

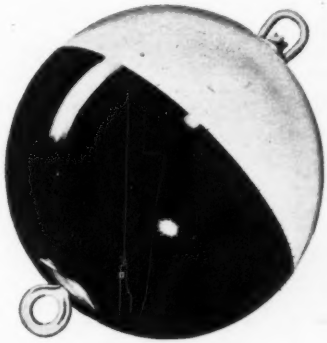


SAFE-T-TOW floating aluminum triangle handle swivels to prevent rope twists. It is sold with 75 feet of polyethylene rope.
Thompson Skis, Inc., Crivitz, Wis.

STOW IT boat drawer of high-impact styrene measures 5x11x13 in., has a removable tray, installs under seat or dash. $6.95.
Practical Marine Prod. Co., N. Syracuse, N. Y.

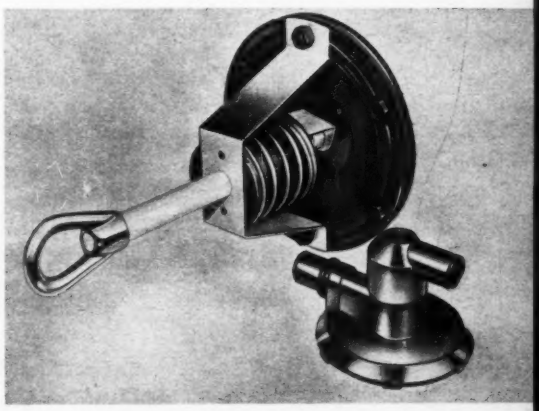
BOWRAILS of stainless steel add beauty, safety and a streamlined look to any boat. Price depends on boat size; $120 to $200.
Swan Engineering Co., 22-58 Nelson St., Bloomfield, N. J.

INFLATABLE plastic beach bag can be used as a carry-all, pillow, cooler, water jug and emergency life preserver; $2.98.
Ashley's, W. Huron River Dr., Belleville, Mich.



FIBERGLAS BUOY with foam-plastic filling won't rust; 16-inch-diameter ball will support a 45-foot, ⅜-inch chain; $39.50.
Hanson Equipment Co., P.O. Box 270, Beloit, Wis.

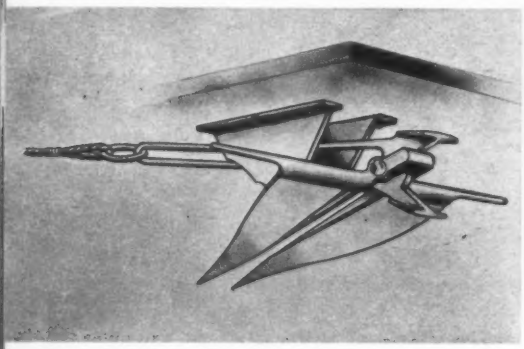
SKI HITCH tilts into boat for easy hooking of towlines above the motor. Price is $24.95.
Futurity, Inc., Box 827, Joliet, Ill.



BILGE PUMP shaft passes through hull to act as mooring ring; wind and waves cause pull on shaft to work diaphragm. $23.95.
Bedford Co., Carlstadt, N. J.

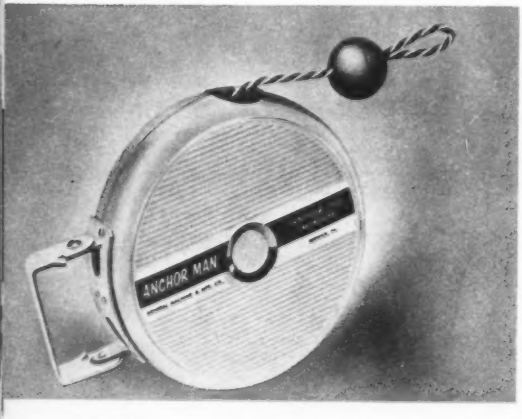
CATWALK HARDWARE for a 2x12-in. plank up to 14 ft. long permits dock extension to deeper water; it's $15 without the pipe.
Sagen Boat Hoist Co., Auburn, N. Y.

MINIMUM DINGHY is 6 ft., 10 in. long, weighs 45 lbs., will carry 1,250-lb. load, won't sink. Fiberglas, it sells for $173.
Aero-Nautical, Inc., 97 Garfield Ave., Copiague, L. I., N. Y.



ANCHOR DAVIT is designed for mounting on underside of catamaran or pontoon boat deck. Line runs over roller. Price $29.60.
Benson's Anchors, Inc., 316 S. Orchard Rd., Syracuse 4, N. Y.

RADIO direction finder picks up selected station frequency, transfers position and course information to visual indicator. $249.
Allen-Bradford, 3181 North Elston Ave., Chicago 18, Ill.



REEL contains 450-lb. test polyethylene anchor line for small boats, automatically retrieves. It's $9.95 with 40 ft. of line.
General Machine and Mfg. Co., Berwick 16, Pa.

WATER PUMP delivers up to 2½ quarts per minute, has neoprene impeller and a check valve to maintain priming supply. $10.95.
Int. Electronics Research Corp., 145 W. Magnolia Blvd., Burbank, Calif.

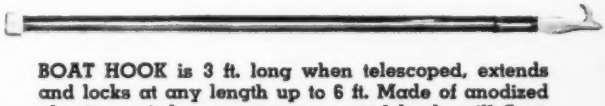
SWIM MITTS of natural rubber have web-fingered design to increase speed, lessen fatigue; three sizes from $1.29 to $2.50.
Pioneer Rubber Co., 196 Tiffin Rd., Willard, Ohio

GAS TANK with 12-gal. capacity extends outboard cruising range, has wrap-around rubber bumper, four tie-downs, is $34.95.
Kiekhaefer Corp., Fond du Lac, Wis.

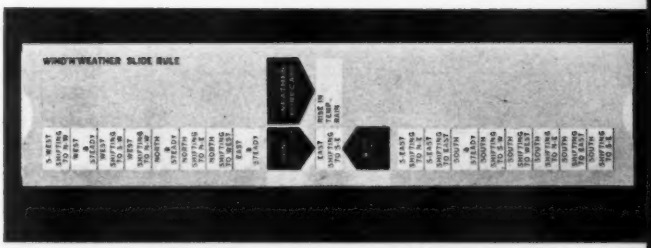
FIRE extinguisher holds 2½ lbs. of dry chemical, costs $17.50. Pressurized, sealed spherical cartridge is disposable. $4.95.
Ansul Chemical Co., Marinette, Wis.

BAIT PAIL is carried upright, floats or sinks upside down. Perforated lid is permanently attached, slides aside. $5, ppd.
Product Design Engineering, Box 2781, Cleveland, Ohio

CELLS of marine battery interlock, allow build-up of any ampere-hour rating or voltage.
Sweinhart Equip. Sales, Inc., 2900 E. Olympic, L. A. 23, Calif.

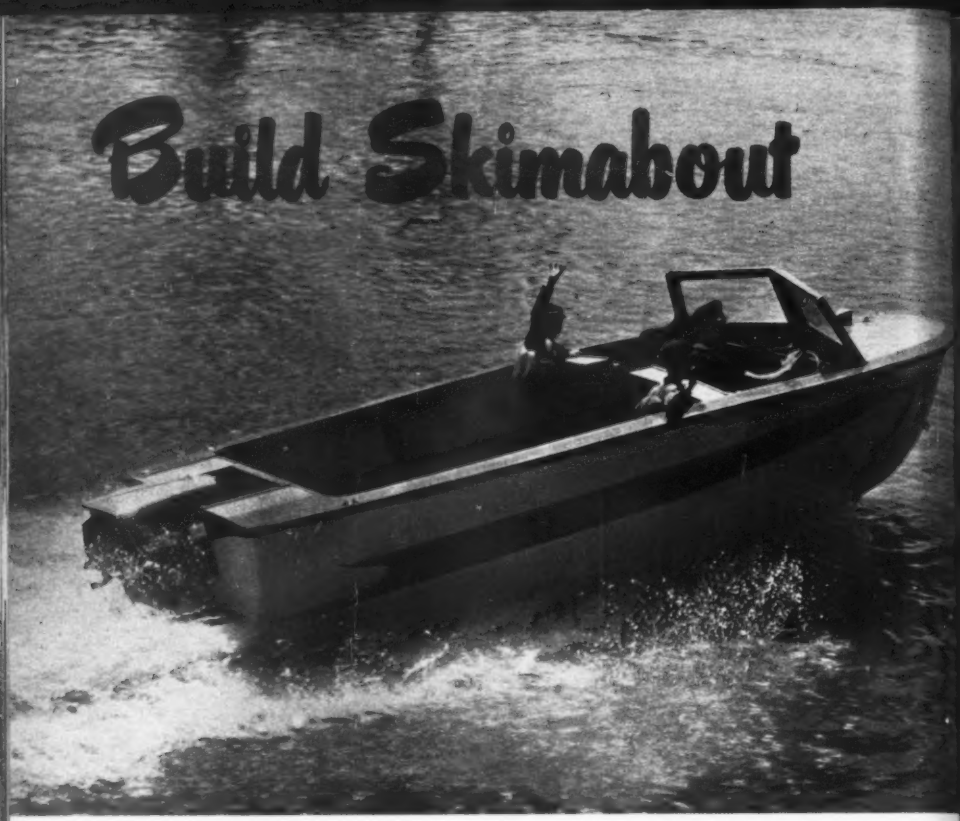


BOAT HOOK is 3 ft. long when telescoped, extends and locks at any length up to 6 ft. Made of anodized aluminum, it has a neoprene-coated hook, will float.
Nautalloy Products, Inc., 213 North St., Auburn, N. Y.



SLIDE forecasts the weather when you set the wind direction and variation. Other side has Coast Guard warning signals in color. Case included. $3.50, ppd.
The Lighthouse, Inc., 11 Court St., Plymouth, Mass.

Build Skimabout



This roomy, 17-foot hull is seamless Fiberglas laid up on a plaster-finished mold.

FRAMES are checked on full-scale layout.

By Normal Zempel

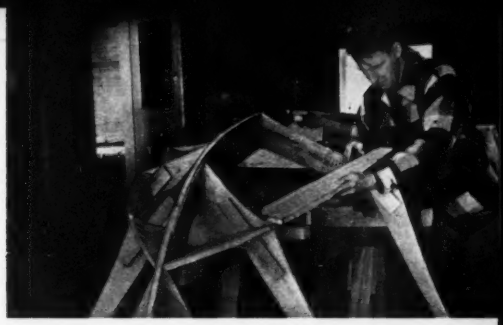
DESIGNED and built for a family, Skimabout is as big a runabout as anybody could want. She's 17 feet with a 7-foot beam and has a 7½-foot cockpit behind the forward seats. What's more, there's plenty of depth from floor to gunwale so that you're always *in* the boat rather than half-way out.

With an eye to reduced maintenance, the hull is Fiberglas, laid up on an inexpensive mold made from lumber, lath and plaster. There are three layers, two of cloth with one of matte between. When the three are laminated with polyester resin they form a tough, leak-proof shell which is easily removed from the mold for rapid finishing of the boat.

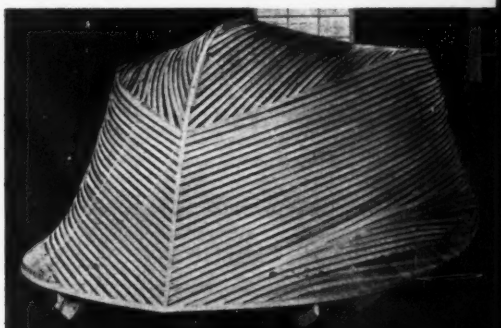
Construction is not difficult and begins with a full-scale layout of the plans on heavy, white paper. Working from the dimensions given in the drawing on

page 134, and using the curve pattern given in the same drawing, each mold frame outline can be overlaid upon the other. Then it's easy to trace the outlines on ¾-inch seasoned pine and cut out the pieces with a band saw. The first construction photograph shows the sections of a frame being checked against the drawing. The sections are then joined with cleats and crosspieces are nailed horizontally across the frames so that their top edges are 18 inches above the base line. These crosspieces will serve to mount the inverted frames on the mold frame jig. When the frames are assembled, a ¾x1¾-inch notch is cut in the center bottom of each for a keel strip. Then the stem is traced and cut out in the same manner as the frames and a ¾x4-inch cutout is made at the bottom rear for the keel strip to fit into.

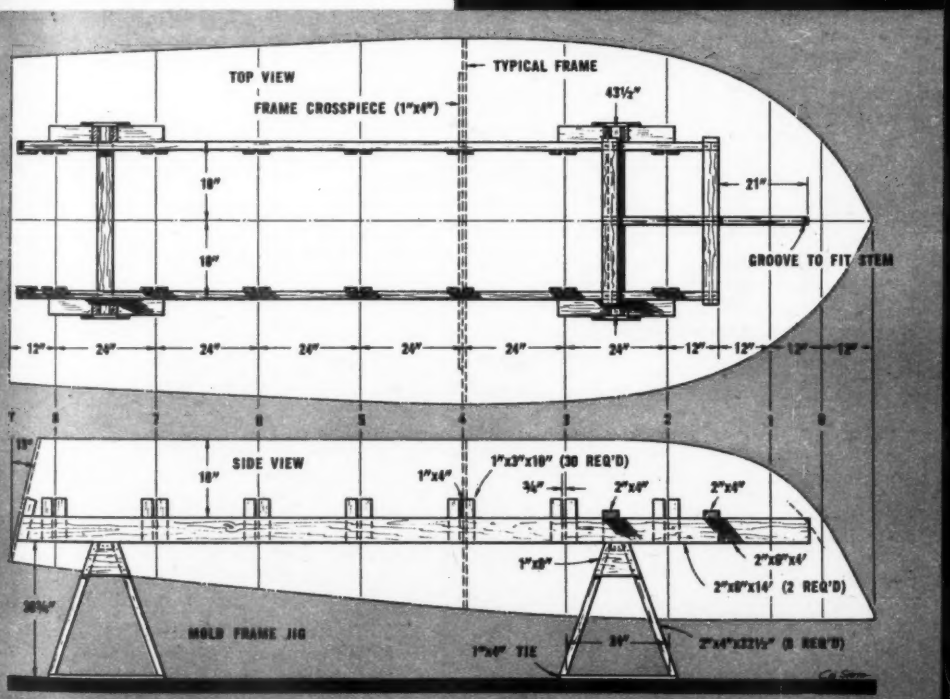
The mold frame jig is shown in the drawing on page 113. When it's erected, the 1x3's nailed to the insides of the 2x6 longitudinals form slots into which the crosspieces on the frames fit. Frames one through eight are erected vertical on the

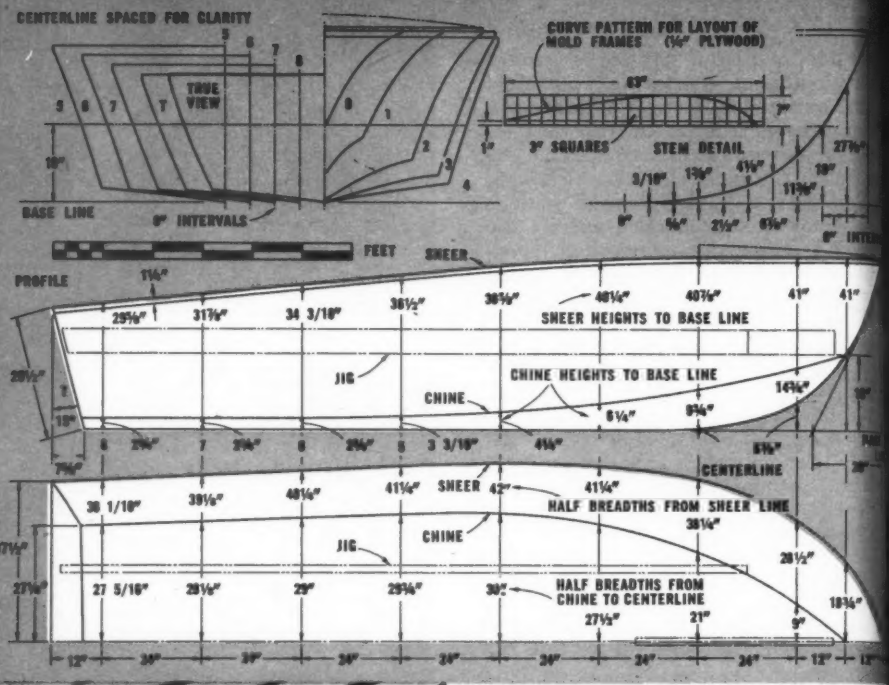


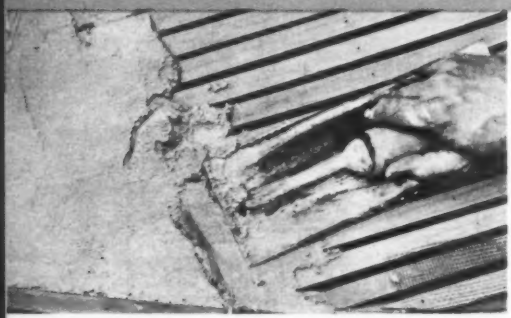
PINE STOCK is cut to chine and gunwale curves and fitted between the mold frames.



LATH tacked to framing completes wooden part of mold; they're 3/16x¾-in. strips.



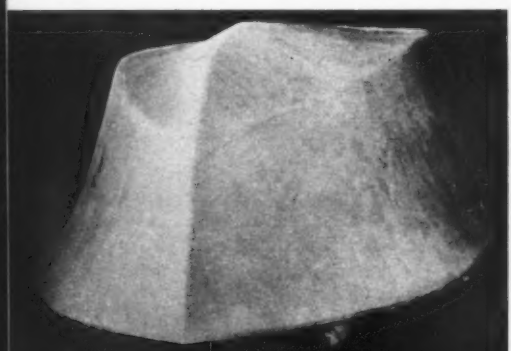




THREE COATS of plaster are used to get required thickness and smoothness in mold.

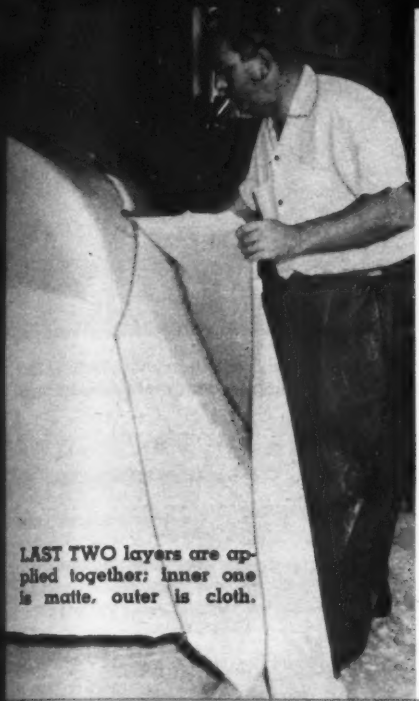
jig and the transom is installed at a 15° angle. The stem is placed on a built-out projection which is exactly on the centerline. Using a square or a level, make sure that each mold frame is properly aligned and nail it in place. Then the keel strip can be fitted in and nailed.

Next, to make rigid chines and gunwales in the mold, ¾-inch pine stock is cut to the proper curves and nailed be-



MOLD is complete when it's sanded smooth.

AFTER applying mold release, cloth is laid on and the resin is spread with a mohair roller.

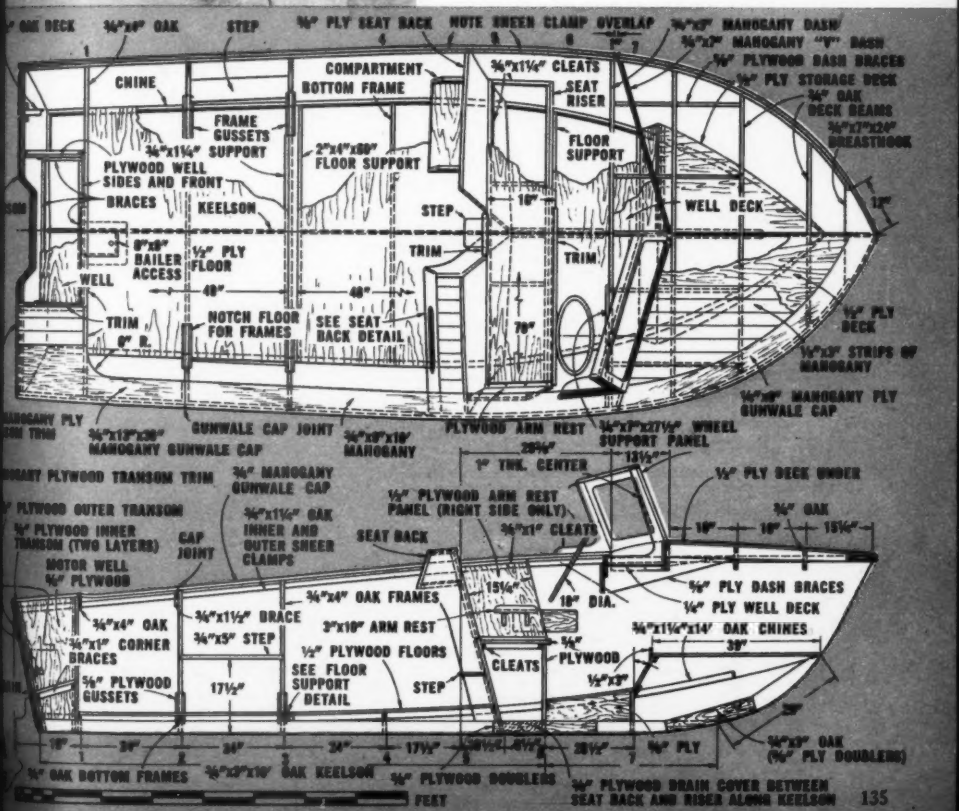


LAST TWO layers are applied together: inner one is matte, outer is cloth.

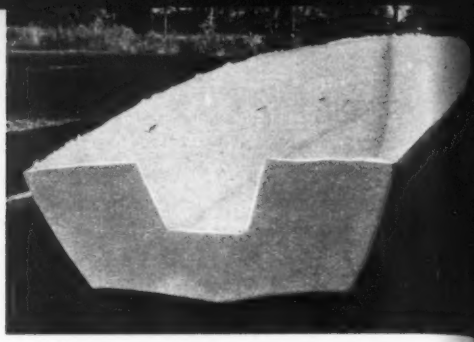
RESIN saturates matte through cloth and bonds both to the initial layer of cloth.

LARGE-SCALE PLANS

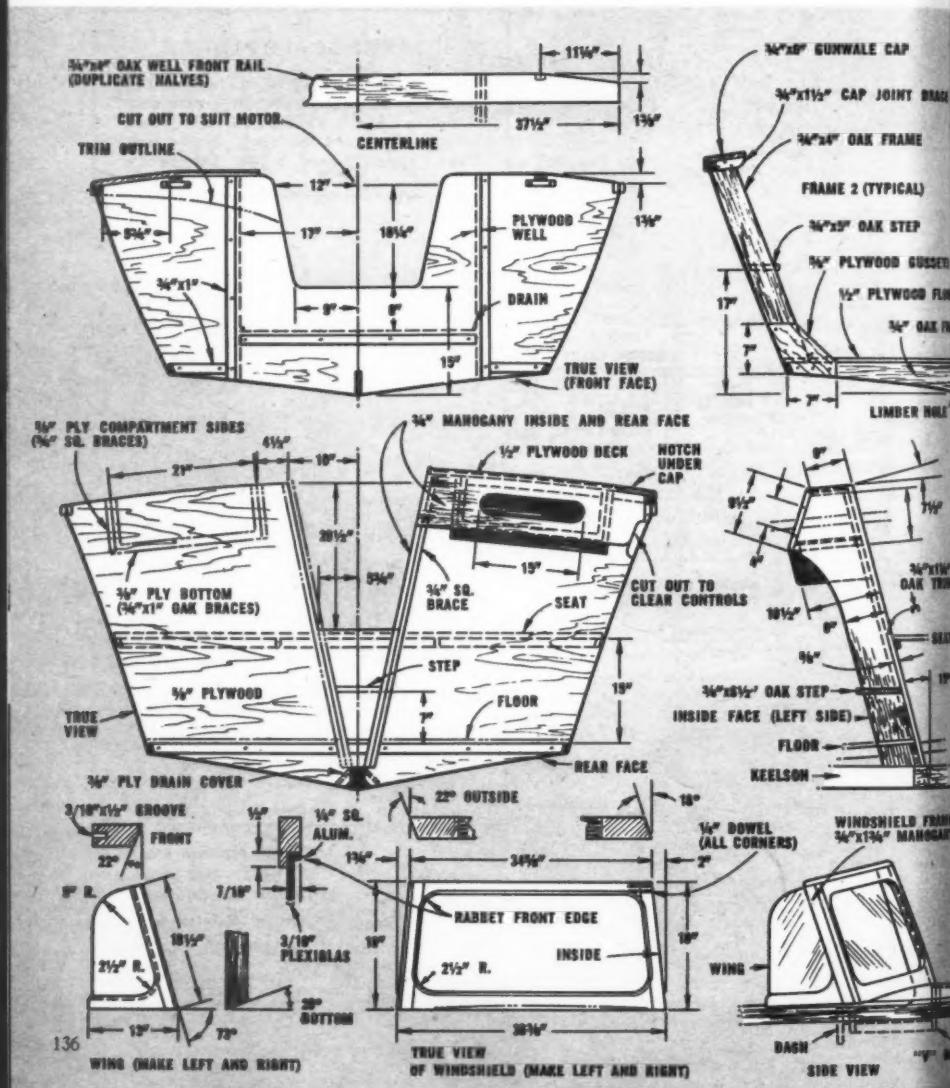
are sold with a bill of materials. For these and the complete text giving construction details, send $5.00 to MI Plans Service, Fawcett Building, Greenwich, Conn. Specify Plan B-240, Skimabout.



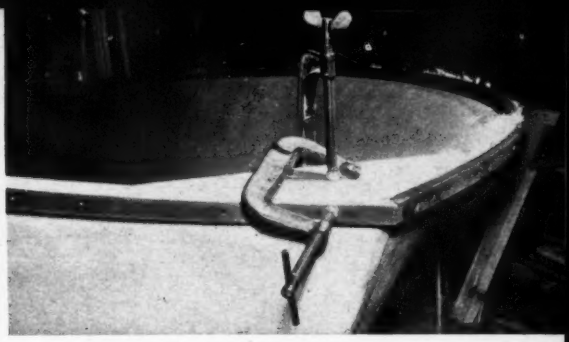
DISK SANDER is used to feather all overlapping edges of the glass cloth.



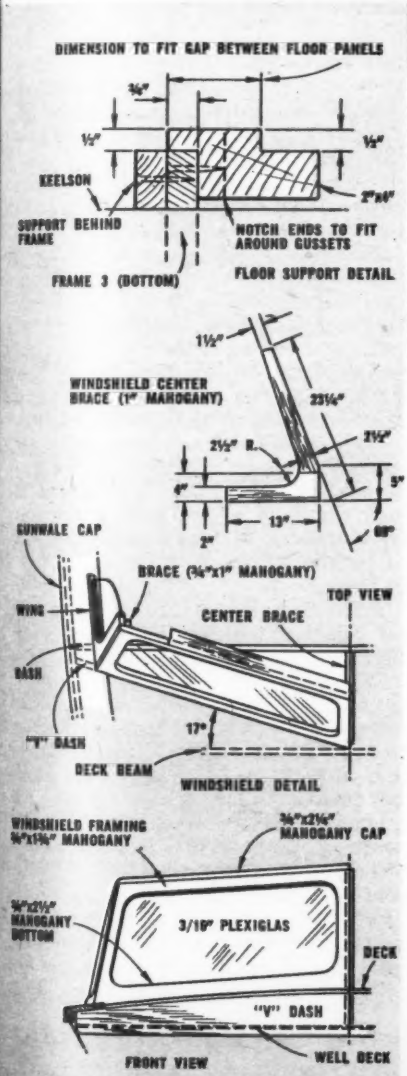
HULL after removal from the mold; prying and hammering break it free from mold release wax.

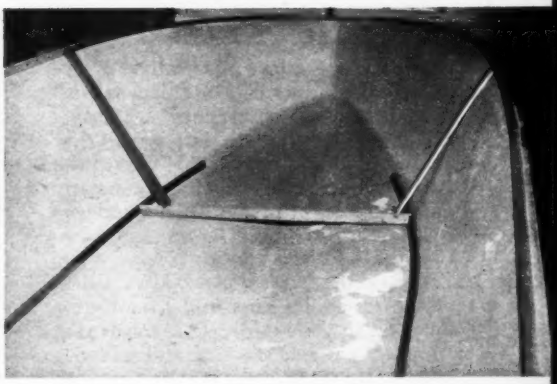


STEAMING in a length of pipe facilitates bending of the oak sheer clamps.



INNER AND OUTER sheer clamps are ¾x1¼-in. white oak, screw-fastened after steaming.



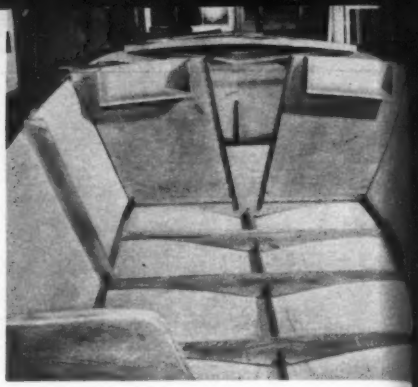


BRACES temporarily hold ¾x1¼-in. oak chines in place until frames are installed.

tween the frames. This can be done by cutting boards to fit between the frames and then tracing the curves by means of a flexible batten bent around the frames. The photograph at the top of page 133 shows a piece being fitted in after the curve has been traced and cut. Double check the alignment before proceeding with the lathing. If any member is out of line, the whole project will not be a success.

Our $\frac{3}{16}$x¾-inch lath was cut from ¾-inch pine boards, eight feet in length. Using one-inch brads, the lath was then fastened to the mold framing with no more than a quarter-inch between each strip. Start on either side of the keel and work out. Where the strips butt against the stem, a sharp knife can be used to cut the correct angle. Because of the necessity to maintain smooth curves, do not attempt to twist the lath;

PLYWOOD transom panel is installed inside Fiberglas hull. Note cleats for well.



LOOKING FORWARD after installing the reinforcing frames and plywood seat back

let each piece curve naturally. Where spaces occur, they can be filled in with short lengths later. Where a joint is necessary, butt the lath on the center of a frame. You will not be able to lath the frames where the bow flares sharply near the gunwales; instead, cover this area with a wide mesh screening to provide a base for the plaster.

Three coats of plaster are required to get the thickness, line and smoothness you need in the mold. We started with a product called Lite-Mix and added a little water at a time to get enough plaster to last for an hour, no more. The mix should be just stiff enough to stand like whipped cream. With a trowel, start at the bow and spread it with a firm stroke. Do not press too hard or you'll cave in the lath and practically all the plaster will go through the openings. The first coat must lock between the lath and form a firm layer. When the plaster is firm, but not yet hard, run a wood float over it to provide a tooth for the next coat.

With the second coat, using the same mix, you establish line and smoothness of contour. You can employ a straightedge about five feet long to help establish the line horizontally and vertically. On the compound curves, your eye will be your best guide.

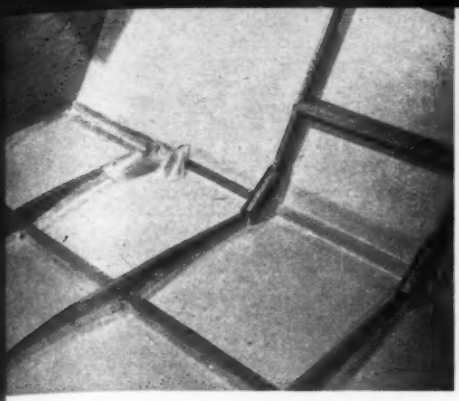
For the last coat, mix finishing lime with water and allow it to stand 24 hours. Then pour enough to half fill a three-gallon pail and mix in the right amount of plaster of Paris for the brand you're using. This mixture is applied immediately in a ⅛-inch coat with a steel trowel. Smooth it out and, when it is completely dry, sand all the sharp edges. Any depressions, pinholes or cracks which remain should be filled with plaster of Paris.

The next step is to apply the mold release—a wax that prevents the resin from sticking to the mold. You can get it from your Fiberglas supplier. Apply it according to the instructions, being sure that no bare spots are left where the Fiberglas will contact the mold.

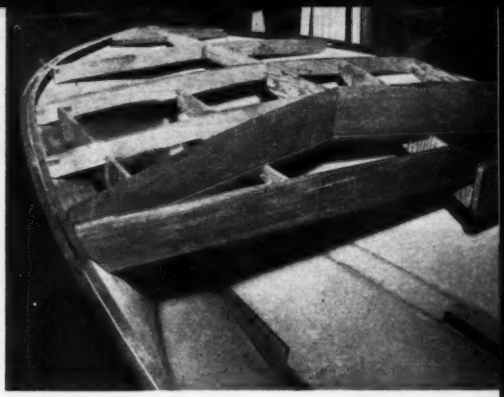
The first layer of Fiberglas cloth now goes on. Start fitting it along one half of the bottom, leaving an overlap of two to three inches at the keel and chine. Smooth out all the wrinkles with your hands, starting at the center and working toward the edges. You'll find it fairly simple to lay and trim. When you have prepared as large a section as you can handle, you're ready to start applying the resin.

Instructions for mixing the resin and the catalyst which hardens it vary slightly with different manufacturers, so follow the instructions with the resin you buy. In new boat construction, it is generally recommended that you thicken the resin. Stirring in this thickener takes time, but it pays off in that your resin goes farther. Color pigment, if you use it, is added next. You can put the pigment in all the resin mixes or add it only to the last coat. We used a white pigment all the way through.

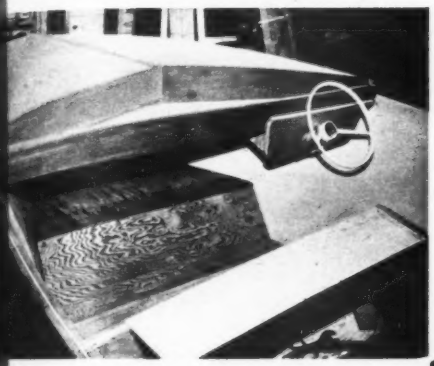
Every piece of cloth that goes on the mold must be thoroughly saturated with resin. This is best done with a mohair roller about seven inches wide. Just



FRAMES and chines are secured by Fiberglas, eliminating fasteners through hull.



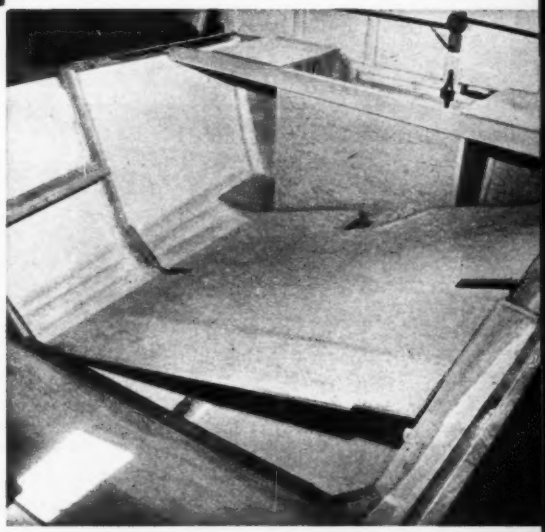
DECK BEAMS and dash panel are fastened to sheer clamps by means of brass angles.



FOOTREST and storage deck provide flotation when covered by Fiberglas.

pour the resin on, a cupful at a time, and work it through the cloth. Any spot which isn't saturated will show up as dull and resin should be applied to it immediately. Once the resin becomes tacky, you can't go over it. The cloth will conform to the curve of the hull as you work the roller from chine to keel, but try not to pull it so that the weave is stretched excessively. Each piece of cloth should overlap the other by at least two inches [*Continued on page* 160]

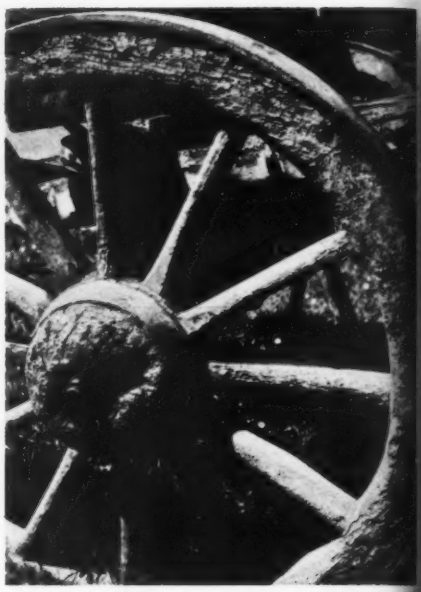
PLEXIGLAS windshield is held in rabbet by ¼-in. sq. aluminum stock.



FLOOR BOARDS must be notched to clear frame gussets. Note the oak step between the frames.

Monthly Photo Contest

$10 .....BEARING HIS FEELINGS
Gertrude Guiberson, Olympia, Wash., used a Yashicamat. Verichrome pan; f-8 at 1/250th.

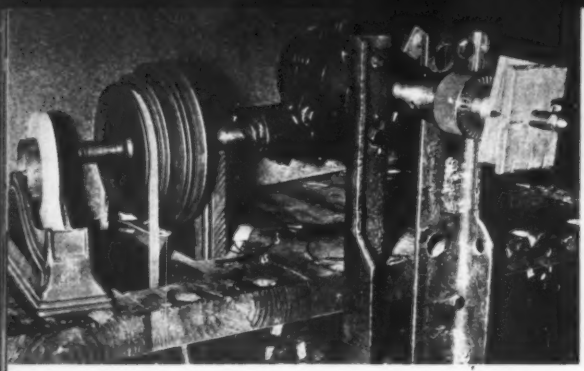


$10 .....SCULPTURED BY TIME
John Long, Staple Hill, Bristol, England, shot at f-11 and 1/50th with roll film camera.

$10 .....MONARCH
Setting of f-16 at 1/60th was used by Ed Stroebel of Wapakoneta, Ohio. He exposed Verichrome in a Rollei.

Please put your name, address and picture-taking data on back of each print. Wrap with cardboard stiffeners and enclose a self-addressed stamped envelope or postage for return of unused photos. Prize-winning pictures are not returned. Judges are MI Editors. Duplicate prizes awarded in case of tie. Address entries to: *Mechanix Illustrated*, Photo Contest, 67 W. 44th Street, New York 36, N. Y.

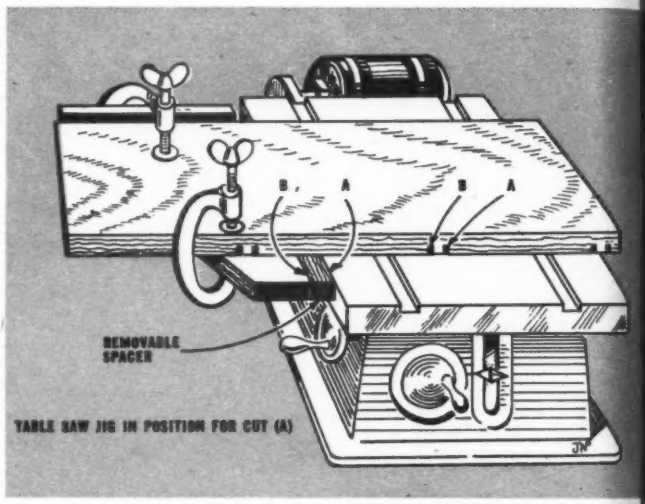
1st Prize ($25) HIGHLIGHT AND NO LIGHT A/2c James T. Rives, USAF, lighted pipe smoker with two spots, had Ansco's High-Speed film in 4x5 Graphic; f-8 at 1/10th.



GEAR BOX from auto steering wheel makes ideal speed reducer. Machine spindle to take drill press chuck; set-up also facilitates coil-winding jobs.

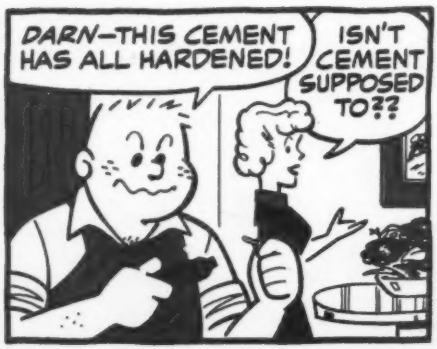
TO CUT round gaskets, place desired material between two identical coins, then trim off excess.

HOME AND SHOP SHORTS

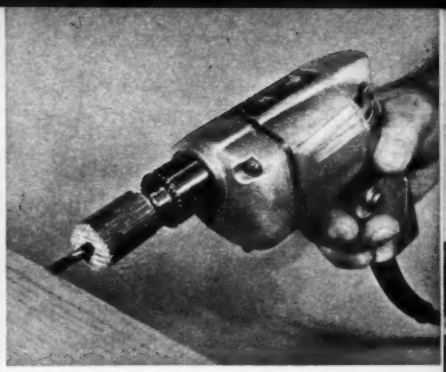


THIS JIG cuts an accurate "dado" for those who lack a dado head. Make cut "A" with spacer (equal to width of desired dado) in place; cut "B" is made with the spacer removed from the jig.

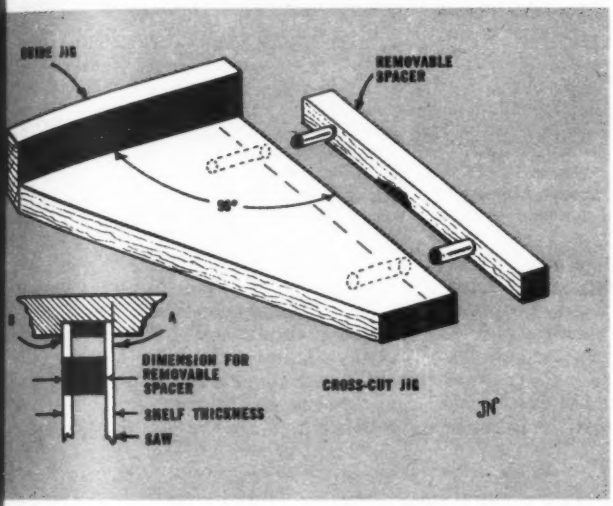
FREDDIE FUMBLES



HOSE SECTION makes a good grip for a lawn mower starter rope. Bore a hole through the center of the hose, then thread rope through it and knot the end.



DEPTH GAUGES for drills can be fashioned, as shown, from dowel sections of proper length.



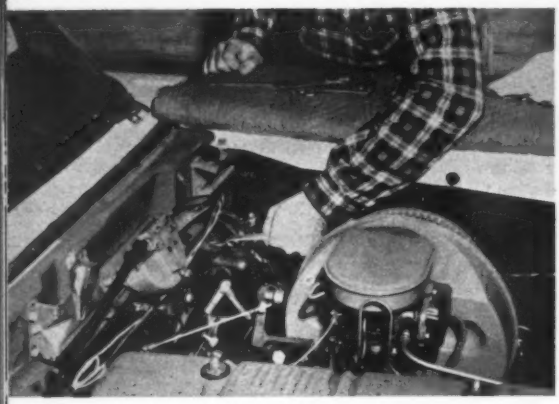
CONSTRUCTION of the dado jig is simple and is easily achieved by following the general directions as outlined in the plan at the left.

Send Freddie Fumbles your idea of a good short-cut, time-saver or safety device in your work, whether it be in the home, shop, office or farm. Each tip accepted will be paid for at the rate of $10. Naturally we cannot acknowledge or return the ones we cannot use. However all will be carefully read and evaluated. (Those which we can use in other departments of MI will be paid for at our regular rates.) Please send in your ideas on a post card only. Address to Freddie Fumbles, *Mechanix Illustrated*, 67 W. 44th St., New York 36, N. Y.

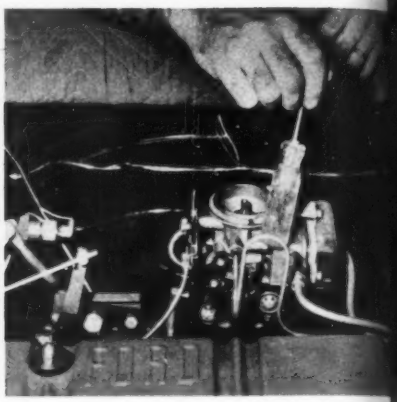
CAR CARE

TRY SOMETHING SIMPL

By Frederick C. Russell
Society of Automotive Engineers



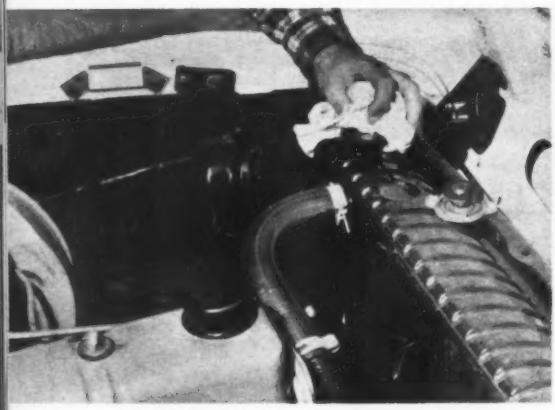
DRAGGING BRAKES may be freed by opening clogged vent of brake master cylinder.



IF unseated needle valve causes a sti try tapping carburetor's fuel intake an

ON the theory that some of the finest things come in small packages, shrewd motorists are learning how to cure many car ailments by the simplest of remedies. A touch here or there at the right time can put new life in the old bus, make a new one turn in a better score, and save repair bills in both case

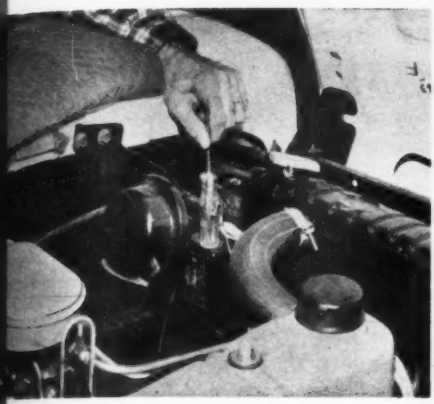
Minor things can cause the most dis turbing conditions. Like the car th always shimmied about a week afte front-end checking. Finally an obser ant mechanic noticed that the left fro tubeless tire always lost five pounds o



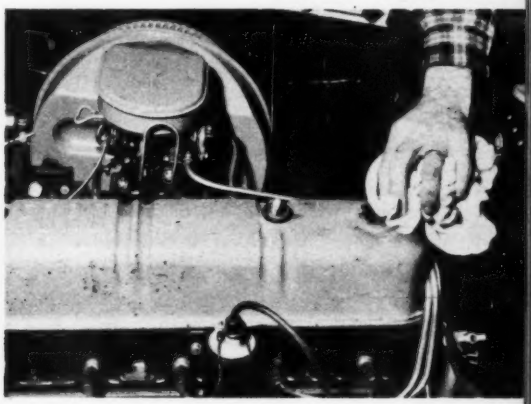
UNSEATED radiator cap can cause overheating: clean filler-pipe neck regularly.

CHECK tires weekly. One low front ti can cause a shimmy at speeds over 35 mp

In trouble? Before you push the panic buttons learn how slight readjustments can get you rolling again.



TRY SILENCING a self-blaring horn by giving a sharp rap to the horn relay unit.

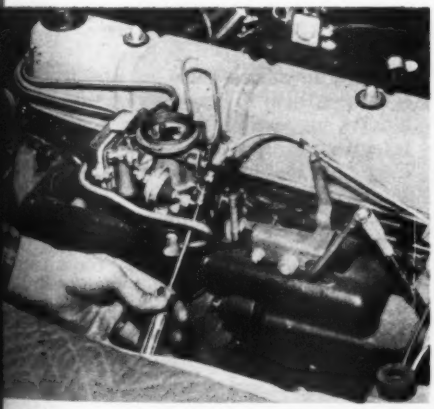


CLEAN crankcase vents and oil filler pipe to prevent oil fouling the pistons and plugs.

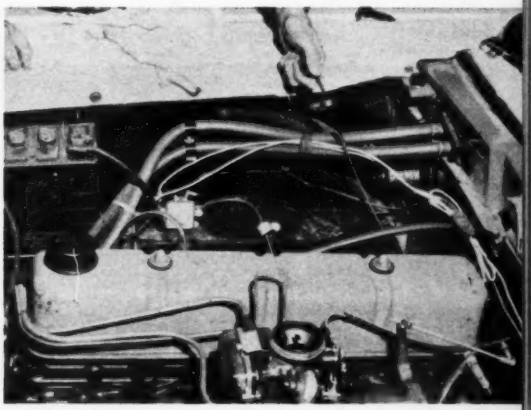
air pressure through a slow rim leak. That was just enough to throw the balanced wheels out of whack.

When a stalled engine refused to start, the mechanic who came to the rescue lightly tapped the fuel inlet area of the carburetor with a hammer. Immediately the engine played ball. Dirt had held the needle valve off its seat, a bit of shock at the right spot dislodged it.

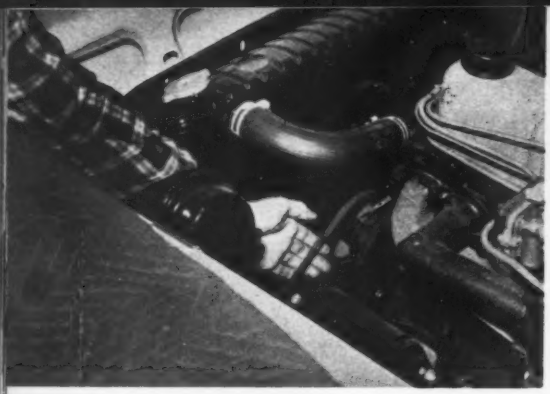
I once got rid of a severe engine knock by driving fast up a long hill. The result was that some loose carbon in one of the cylinders blew out the exhaust, there-



ADJUSTING throttle linkage of automatic transmission may correct wrong shift points.



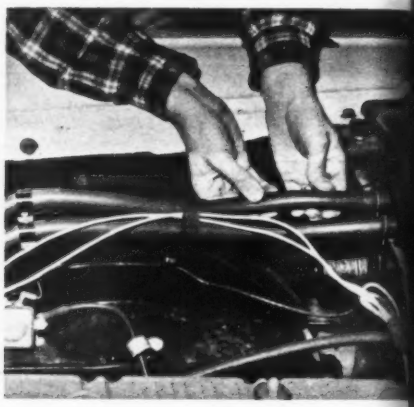
DON'T OVERFILL automatic transmission or you may force oil out through the seals.



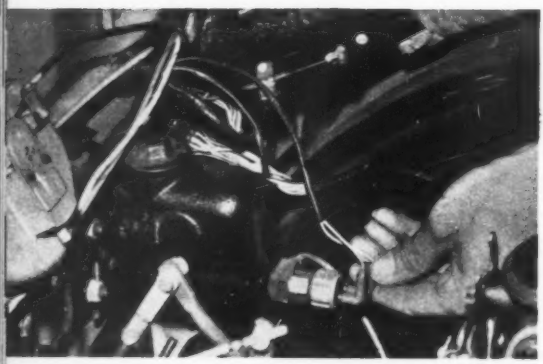
SQUEALING V-BELTS may be caused by pulleys which are out of line. Align 'em.

SLUGGISH windshield wipers are often traced to a poor vacuum hose connection.

CARRY a bucket of sand in the trunk to use in case you get stuck in a snowdrift.



ADDING WATER too frequently? Examine your hose connections and check for leaks.



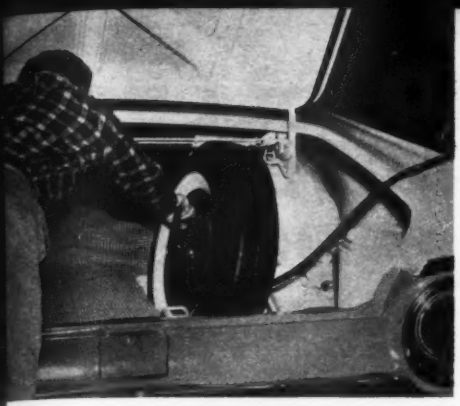
MALFUNCTIONING stop lights are often traced to a loose connection at the switch.

by ending a bad case of pre-ignition.

It is natural to become alarmed when a noise suggesting front-end looseness is telegraphed up the steering post. This may be a loosened front wheel or wear in one of the wheel bearings. Clicking in the brakes after a major brake overhaul usually turns out to be failure to smooth out all the drums after they have been trued. The shoes pull sideways on threads left by the lathe, making a characteristic click when they snap back.

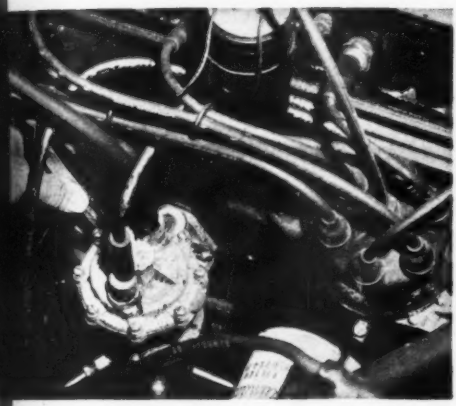
The car's horns going into action of their own accord need not be cause for concern. Locate the horn relay box and rap it with your fist. Chances are that its points have merely stuck together. This business of rapping is most effective in

are often
onnection.



AIR HOSE serves in an emergency to inflate a flat with air from the spare tire.

? Examine
t for leaks.



EXCESSIVE oil consumption may be traced to a gas pump flange which has loosened.

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loosening up a corroded exhaust manifold heat control valve. First flood it with penetrating oil and then, while grasping the valve's counterweight and working it back and forth, tap the end of the shaft with a hammer. Shock helps the oil travel along the shaft.

Your car has a surprising number of vents which, neglected, can cause a lot of trouble. Brakes will apply themselves and drag you to a halt if the air hole in the master cylinder's filler cap becomes clogged with dirt.

If there's dirt around the filler pipe of the radiator, or if this area is nicked, the pressure cap won't fit tightly. This may cause boiling on a hot day or if the winter anti- [*Continued on page* 166]

SERVICE TIPS

from Detroit

Lift the front of '59 Pontiacs by setting the garage jack under the lower bumpers, between bracket bolts, with saddles at a 25-inch spread. Lift the rear via the cross member, or by the bumper with saddles at a 48-inch spread.

Headlamp aiming on '59 De Sotos is done by means of adjusting screws behind access holes in the headlamp doors. The hole between the two sealed beam units, which is concealed by a removable chrome button, permits access to the up and down adjusting screw on the individual units.

Turning the steering wheel, with the engine off, on early 1960 Chevrolets with power steering can cause an overflowing of the reservoir. Set wheels in a straight ahead position with the oil hot and the engine off when checking and filling the reservoir.

'59 Chrysler and Imperial swivel seats are of zig-zag-type spring construction. Owners desiring additional support in the seat cushion can install a series of loop-ties across the bottom of the seat cushion to link each of the springs together. Strong twine or appropriate steel clips may be used as connectors.

Wind noise on '59 Fords can be caused by an excessive gap between the windshield weatherstrip and the leading edge of the windshield pillar molding. Correct this condition by removing the molding and applying a bead of M5397 sealer along the leading edge; then reinstall the windshield pillar molding.

Dodge warns against drilling holes in the master cylinder cover to correct for "loss of brake pedal." Use only a properly vented cover.

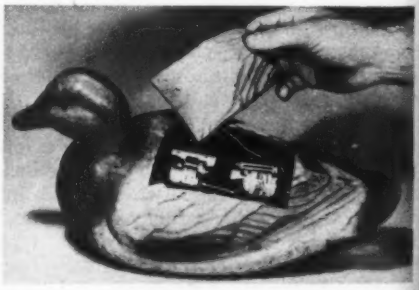
RADIO-CONTROLLED DUCK DECOY

A Milwaukee hobby shop owner has come up with a radio-controlled papier-maché duck decoy that can be directed out into the lake to entice the real ducks within shooting range of the hunter's blind.

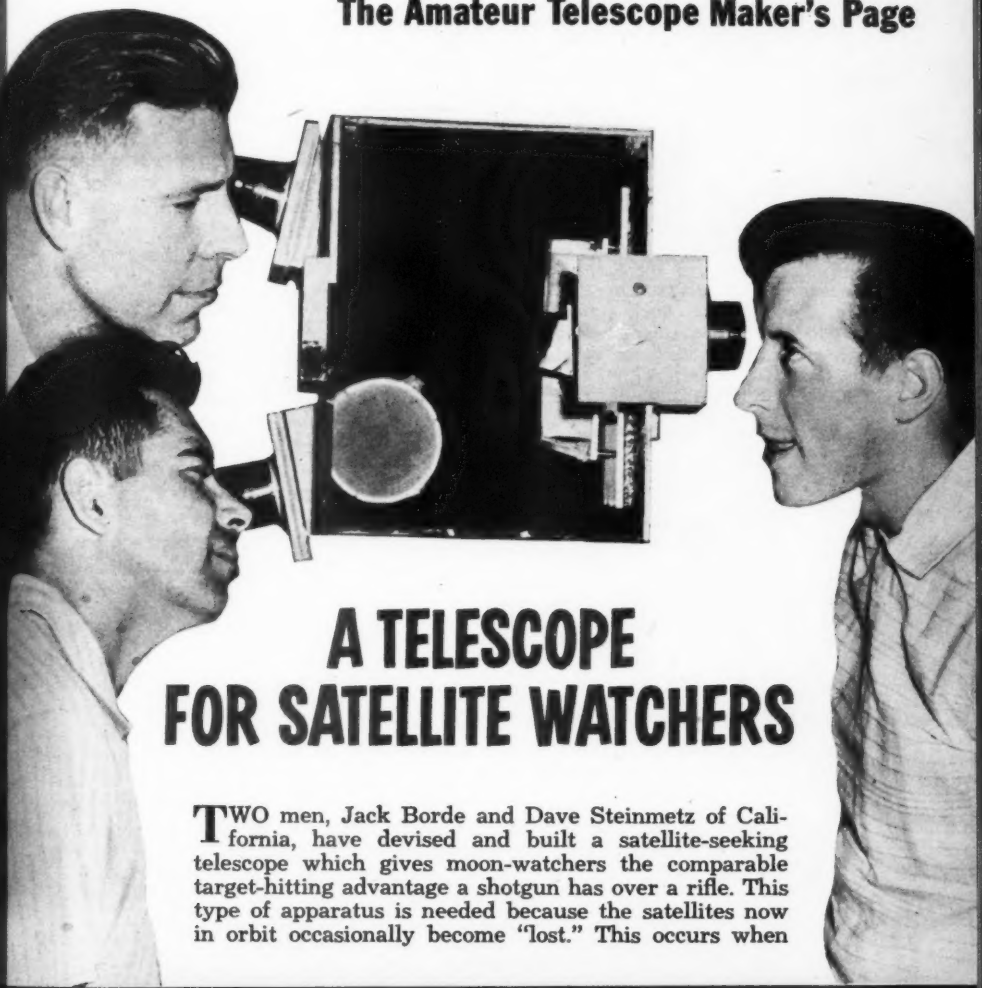
This duck works on the same principle as [*Continued on page* 167]

KOOKIE DUCKS sight Paddling Pam, radio-controlled decoy, and fly into hunter's range.

PUSH-BUTTON HUNTER uses transmitter to chase electronic temptress around pond.

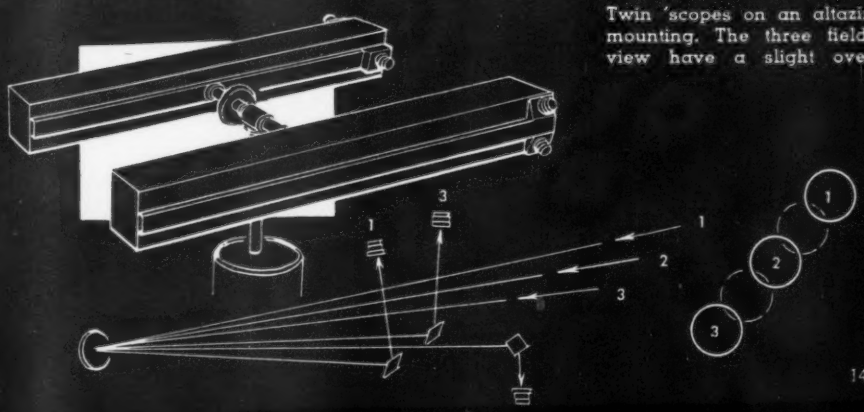


PAM'S removable back covers servo mechanism that paddles her romantically about.



A TELESCOPE FOR SATELLITE WATCHERS

TWO men, Jack Borde and Dave Steinmetz of California, have devised and built a satellite-seeking telescope which gives moon-watchers the comparable target-hitting advantage a shotgun has over a rifle. This type of apparatus is needed because the satellites now in orbit occasionally become "lost." This occurs when



Twin 'scopes on an altazimuth mounting. The three fields of view have a slight overlap.

Three observers can comfortably scan the sky for satellites at each instrument. Second telescope (when completed) will be mounted on shaft leading out of picture.

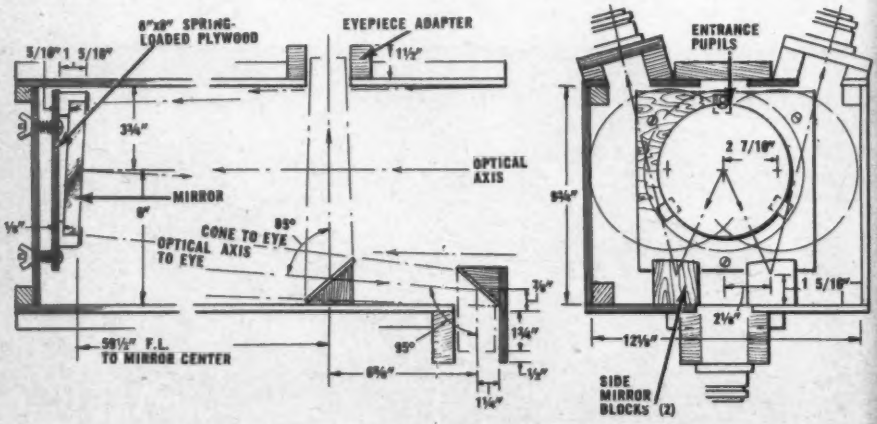
Back yard of Jack Borde and one of his six-inch Newtonians. Construction in rear is of a partially-completed observatory.

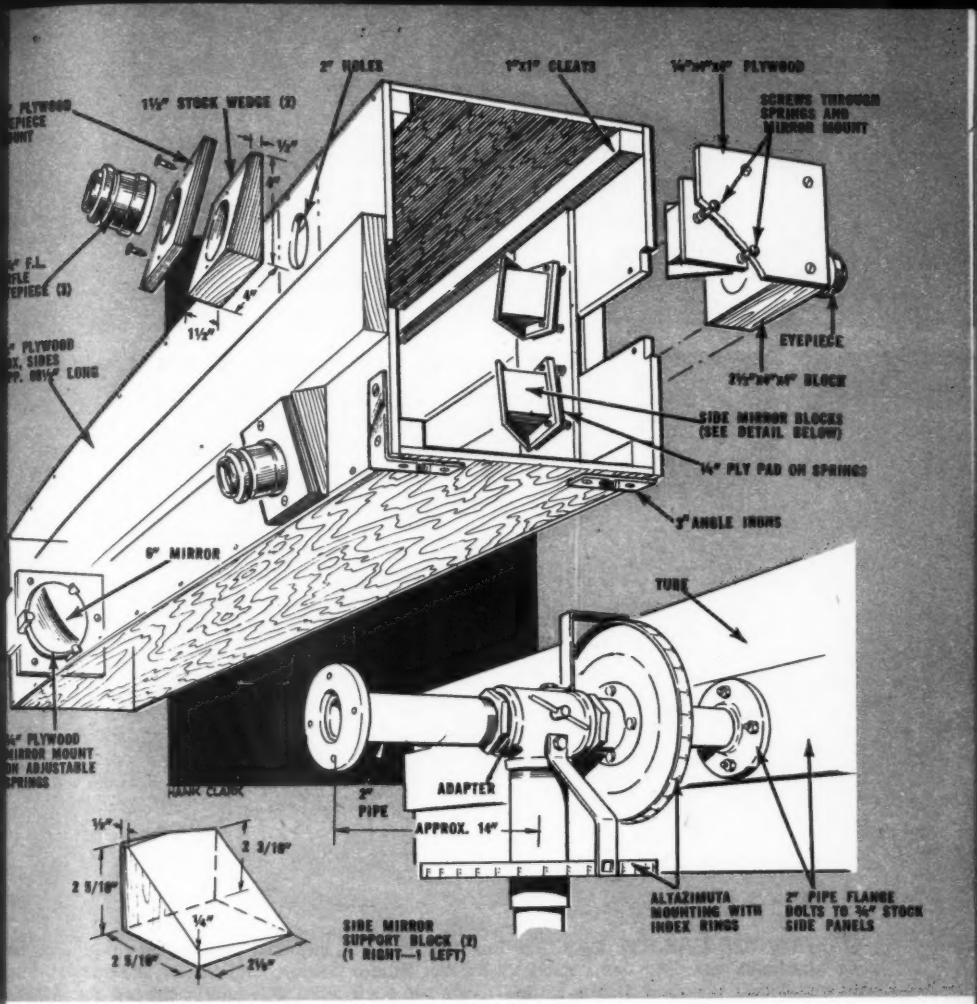
they dip as low as 150 miles above the earth and changes in atmospheric density cause them to go off predicted schedules.

Under normal conditions, the tiny satellites with their median elevation of 2,000 miles are as difficult to spot as a grapefruit streaking over the Mississippi River. While the naked eye is able to spot the big Sputniks, conventional telescopes see the smaller satellites only as streaks.

Until Borde and Steinmetz built their multiple-eyepiece viewer, the moonwatcher with his smaller scope was limited to scanning a 20-mile-wide strip of space, 2,000 miles away. Their device permits three viewers to look through linked telescopes at the same time. Soon they'll add a twin unit, permitting the Diablo Astronomical Society, of which Borde is president, to scan with six eyes, 12 times more sky than a single viewer.

Borde, of Concord, California, is an optics and mechanical technician at the University of California's Radiation Laboratory in Berkeley. Steinmetz, of Martinez, was recently hired as an assistant astronomer for Lowell Observatory in Flagstaff, Arizona. They got the inspiration for their multiple-eyepiece scope from Arthur S. Leonard of Sacramento, a mathematician-turned-moon-watcher. The instrument only cost $50 for materials and 100 man-hours to build.





The observations of satellites are reported immediately to the Smithsonian Observatory at Cambridge, Massachusetts. The 15-member local society is justly proud of its more than 100 satellite sightings. The lion's share of credit for the group's success is given to Don Charles of Pleasant Hill, a chemist at a sugar refinery, who, as moon-watch team leader, plots the tiny sky segments to be observed.

Borde's back yard will be headquarters for future team efforts. The 28-year-old Oakland-born ex-Air Force man is building a high quality observatory there. The center pier, for instance, is anchored well below the frost line in three tons of concrete.

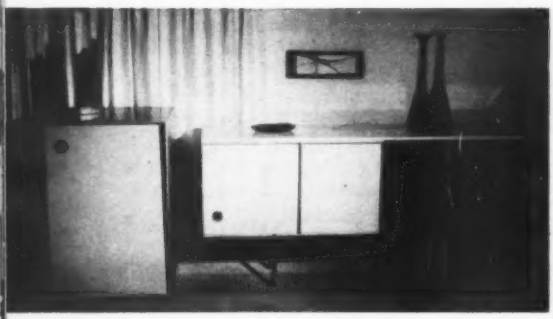
In addition to Big Bertha, Borde's observatory will contain a ten-inch telescope and a meridian 'scope which he is building at home. The mirror and lens polishing machine in his garage is a Rube Goldberg affair made of bicycle chains and a washing-machine motor. It polishes to a tolerance of four one-millionths of an inch.—*John Dengel*

BUILD YOUR OWN TELESCOPE

If you can repair a leaking faucet, you can make a reflecting telescope. For a complete set of plans, photographs, and instructions that will show you how to construct MI's portable six-inch telescope, send $2.00 to MI Plan Service, Fawcett Place, Greenwich, Conn. Please ask for Plan No. P-6.

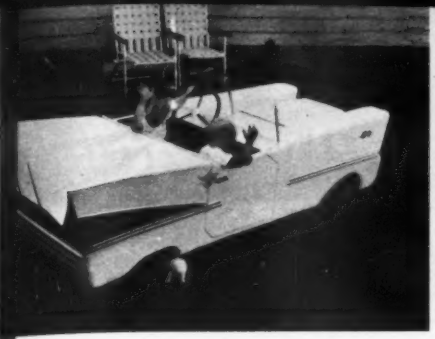
Golden Hammer Award Winners

WATERPROOF CAR-TOP CARRIER has 25-cubic-foot capacity—ample packing area f the numerous camping items used by builder Hilmar Solberg and family of Appleton, Wi Of metal and plywood, it has access doors on each side, is easily removed for storag



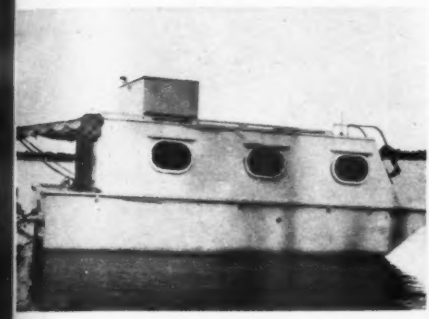
HI-FI CABINET AND SPEAKER ENCLOSURE were superbly crafted by Robert Smyth of Warsaw, Ind., and finished in gum plywood, white Formica, green felt cabinet interior.

FINISHED BASEMENT includes knotty pin paneling, full kitchen, bar and bathroom The whole project was completed by Georg Hattem, Brooklyn, N. Y., in his spare tim



MIDGET ROADSTER has Fiberglas body on a welded frame, a five-hp engine and can do 20 mph. Ronald Redel, Milwaukee, Wis., built it for his children; cost was $400.

CABIN-IN-THE-WOODS, the first project ever attempted by S/Sgt. Richard Davis of Griffis AFB, N. Y., was constructed from MI plans. Cost, with wiring, totalled $350.



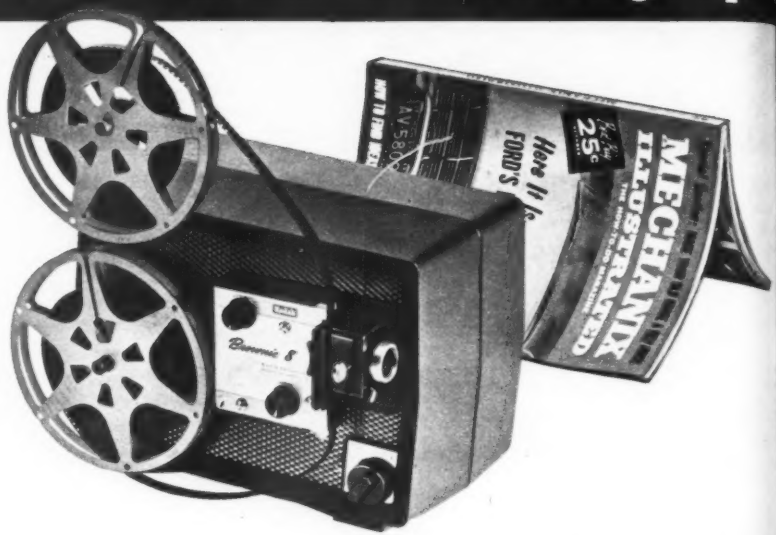
MI PLANS also provided the design for the Water Wagon, a roomy, shallow-draft, 22-foot houseboat that sleeps four and includes a dining area, galley and head. It was built by Harvey Key, Ft. Walton Beach, Fla., who powers it with a 12-hp outboard.

BARNABY, a $300, 16-foot cabin cruiser that appeared in the February '59 issue of MI, was completed in a fast four months by B. James Smith of Ridgetown, Ont., Can.

Each craftsman whose project is shown receives a 24-karat gold-plated Hammer and a Workbench Award Certificate. Runners-up will be sent a beautiful gold-plated Golden Hammer Tie Bar or MI's Certificate of Merit. So send us some *black-and-white photos, with negatives*, and a full description of your latest project. Photos of your workshop are also eligible. Send all entries, with return postage, to MECHANIX ILLUSTRATED Golden Hammer Awards, 67 West 44th St., New York 36, N. Y. Entrants are advised that MECHANIX ILLUSTRATED cannot accept responsibility for customs charges, duties, taxes, etc., levied against Golden Hammer and Golden Hammer Tie Bar winners outside the United States.

The following craftsmen have been awarded GOLDEN HAMMER TIE BARS for their projects: Alan Haskell, Los Angeles, Cal.; Homer Dalton, Odessa, Tex.; William A. Killian, Coatesville, Pa.; Dean D. Spinei, New York, N. Y.; John Hillenbrand, Johnson City, Tenn.; Clyde E. Jones, Birmingham, Ala.; Leo E. Maach, Collinsville, Ill.; L. C. Hoff, Biloxi, Miss.; Ernest B. Hibbard, Pittsfield, Mass.; Ronald M. Ballenger, Travelers Rest, S. C.; Frederick S. Taylor, Kingston, Ont., Can.; Charles D. Neal, Carbondale, Ill.; Stanley Kloc, Chicago, Ill.; William Krupski, Toronto, Ont., Can.; Joseph M. Schuffman, New Castle, Ind.; James K. Tanis, Montague, Mich.; William E. Garrett, Kitchener, Ont., Can.; Rance Nethken, Cumberland, Md.; Claire J. Trout, Aurora, Ill.; Joseph H. Backsmanor, Newport, Ky.; Joseph D. Eakin, Petersburg, Tenn.; William Krupp, Togo, [Continued on page 192]

New Ideas in Photograph



Now a Movie Projector as Small as This Page

—yet it shows beautiful movies a yard wide

Here's the latest word in compactness for 8mm home movies. The Brownie 8 Movie Projector stands only 9″ by 6½″ (this page size) by 6″, and weighs only 5½ pounds.

But don't let its small size fool you. It performs big in every way.

At just 12 feet from your screen, this projector shows movies three feet across. The secret is a new-type lamp with its own non-tarnishing, electronically prefocused reflector to assure maximum brilliance.

Loading is simple because there are no sprockets. You can actually thread the film while the projector is running. The projector accepts big 200-foot reels for full 15-minute shows. And it is blower-cooled.

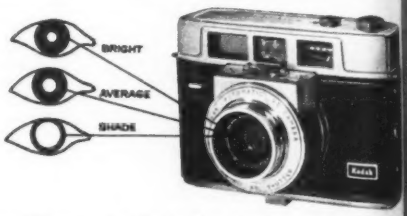
It's worth a trip to your dealer to see the Brownie 8 Movie Projector in action. The price: only $44.50, or as little as $4.50 down.

Lens Automatically "Squints" in Sun, Opens in Shade Like Human Eye

Now Kodak has built an automatic 35mm camera that works much like your eye. It sees light and sets its own lens opening.

The "brain" in the Kodak Automatic 35 Camera is a photoelectric meter. Light reflected from your subject moves a control needle which determines the lens opening. The result: correctly exposed pictures time after time!

Change shutter speed, and an automatic switch adjusts the meter and lens response. If light is too dim even for the *f*/2.8 lens, an automatic signal



tells you to use flash. You don't even thread film —just drop it in!

Try for yourself all the swift, easy operating features of this camera . . . the single-stroke film advance . . . the click-stop "zone" focusing. Only $84.50, or $8.50 down.

from Kodak

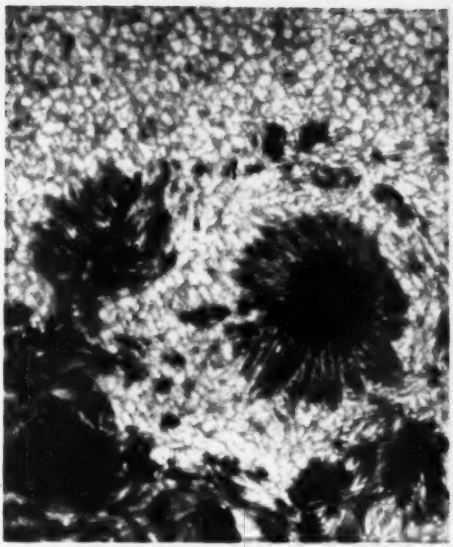
Spots on Sun Filmed for Clues To Radio Disturbances on Earth

Film—in a giant 35mm tele-camera—is bringing astronomers new facts about how happenings on the sun affect us here on earth.

Sunspots cause interference in long-range radio communications. They are being studied through thousands of 35mm photographs of the surface of the sun—taken by a telescope-TV camera system. Kodak films designed for astronomical and professional movie work are being used.

To get the pictures, the radio-controlled photographic equipment was carried by balloon to an altitude of 80,000 feet. This eliminated the shimmer and poor visibility caused by the earth's atmosphere. As a result, the pictures are far more detailed than any ever obtained by even the most powerful ground telescopes.

And the most searching pictures were taken on Eastman Background-X Film, a close relative of the famous fine-grain Kodak Panatomic-X Film used by amateur and professional photographers.



Pictures of sunspots reveal dark cores of relatively cool gases embedded in strong magnetic fields. Surrounding the cores are wispy filaments of outward-moving warmer gases. The sunspots shown here produced a magnetic storm on earth the day before the picture-taking flight.

Versatile Slide Projector Lets You Use Any of 3 Changer Systems

Mount and store your slides any way you want . . choose any of three kinds of slide changers. This Kodak 300 Projector lets you build your color-slide collection without restrictions.

And it gives you great performance. The efficient lamp and condenser show both 35mm and super-slides brilliantly. The four-inch lens permits big-screen images even in small rooms.

A quiet, turbine-type blower pulls cool air in over your slides and around the lamp. Carrying handle is on the projector, not the cover, for extra safety. Cover snaps on—no extra carrying case to buy.

With Readymatic Changer and 4-inch lens, Kodak 300 Projector, $64.50; Kodak 500 Projector with extra margin of brightness, $74.50. Look at both before you choose.

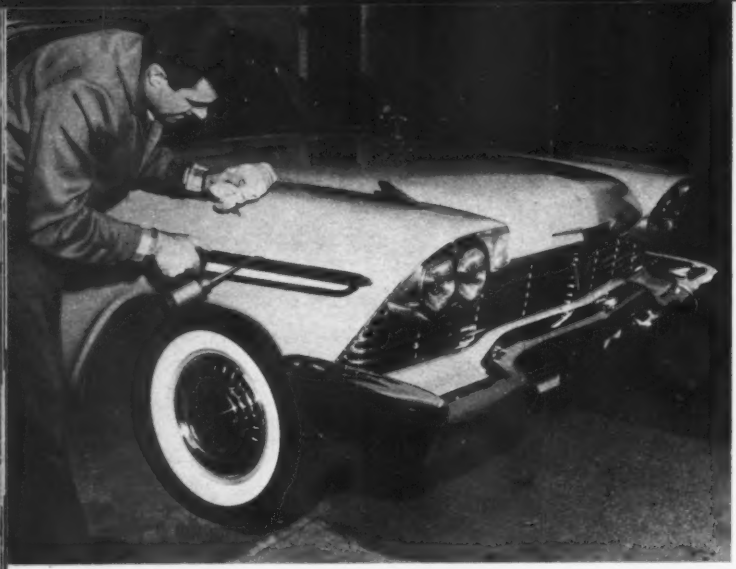
Prices are list, include Federal Tax, and are subject to change without notice.

EASTMAN KODAK COMPANY, Rochester 4, N. Y.

SEE KODAK'S "THE ED SULLIVAN SHOW" AND "OZZIE AND HARRIET."

Kodak TRADEMARK

CAR KINKS

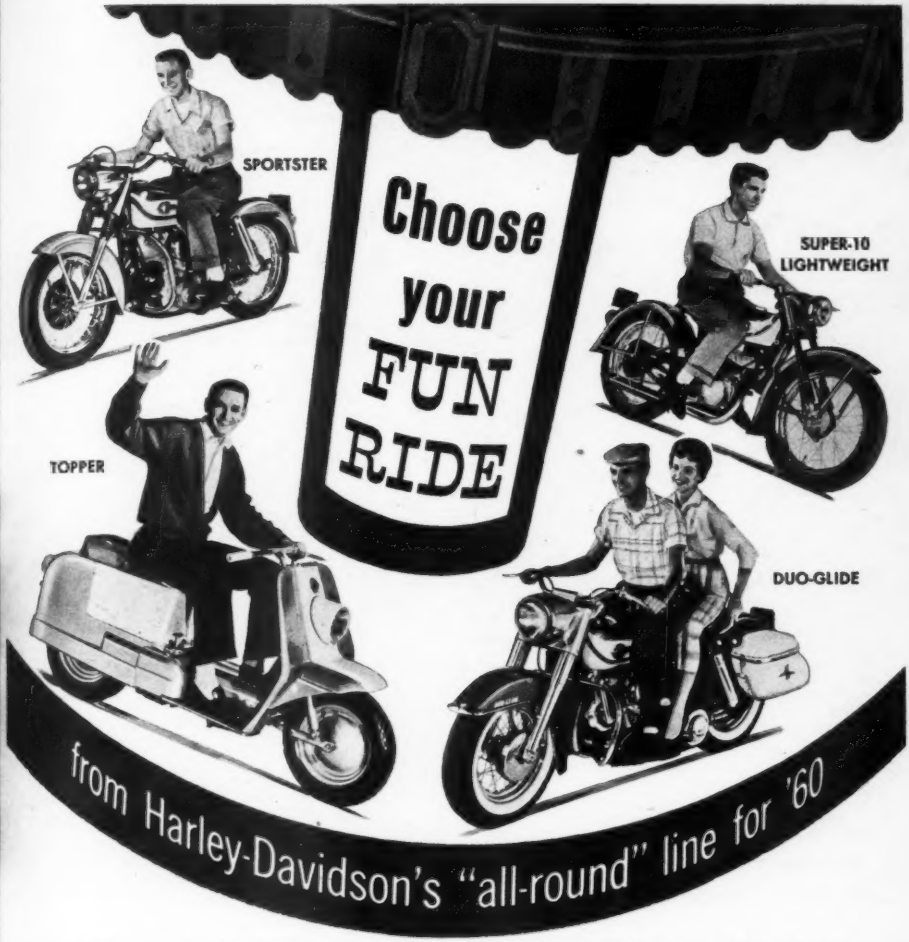


LAY DOWN a thin film of oil behind the chrome trim of your car to retard development of rust in these hollows where moisture gathers.

HAVING TROUBLE snapping your hub caps on and off? It may not be necessary to bend the lugs if you first dab a bit of grease on them before replacing the caps.

LOOSE OR WARPED rubber hood molding lets water into engine area during rain storms. Replace such molding, or re-cement in place if still in good shape.

JOTTING DOWN your blood type on your driver's license may save your life if you should be the victim of a serious accident and require a blood transfusion.



DUO-GLIDE — Harley-Davidson's finest is the luxury cruiser of motorcycles. Smoothest ride on two wheels. Newly styled and engineered for 1960. Available in the FL series or super-powered FLH models.

SPORTSTERS — H Model (shown) for highways or byways — rough going or smooth. Also Sportster CH for "driving" through the rough in "off-the-road" competition.

NEW SUPER-10 LIGHTWEIGHT — Harley-Davidson's newest wheels for the young and young at heart. Ideal for work, school and play. Exciting new styling. Up to 80 miles per gallon.

NEW TOPPER SCOOTER — Tops all others in beauty and performance. Fashioned in gleaming chrome and fiberglass. No shifting or clutching with *Scootaway* drive. Low center of gravity makes for easy handling.

In '60 more than ever before, there's a Harley-Davidson for every purse . . . every purpose. We've added the new *Super-10* Lightweight and *Topper* Scooter. We've made the famous *Duo-Glide* and *Sportster* better than ever. See the all 'round line for '60 at your dealer's now. He'll show you how easy it is to own a Harley-Davidson with his easy-pay plans. Or mail the coupon for free, colorful folders.

Harley-Davidson
MILWAUKEE 1, WISCONSIN
Perfect Mating of Man and Machine

HARLEY-DAVIDSON MOTOR CO.
Dept. MI, Milwaukee 1, Wisconsin
Please send me information on
☐ Duo-Glides ☐ Sportsters ☐ Super-10 ☐ Topper
Name.....Age.....
Address.....
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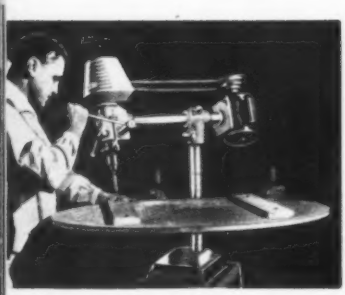
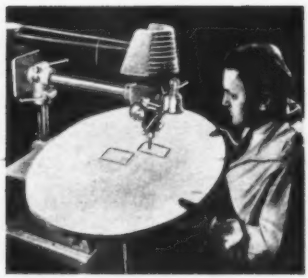
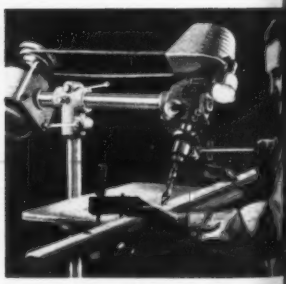


Angular drilling for the splayed legs on a coffee table is no problem with this tool because the angle of right or left tilt can be set by a calibrated scale and locked into position. Resetting head to vertical position is simplified by setting of the automatic stop into a milled groove.



Spindle drilling on an extra long hand rail *does not* require a special fixture or jig because the head tilts. Big ¾" x 23¾" x 15⅞" table gives adequate support while remaining parallel to the base. Laminated wood work surface is mounted to a fully machined 8½" x 9" cast iron table.



Inlay routing in the cent of a 30" x 40" project is po sible because there is 16¾" c pacity between the column an the router bit. Use of the faste of the four speeds availabl makes this a smooth operation Controls are conveniently grouped "up front" for safe positive action.

New radial drill press

makes "impossible" drilling easy

DELTA 32" RADIAL DRILL—basic machine complete with ½" capacity geared chuck, belt and motor pulley.
Weight 85 lbs—only **$89.50** (slightly higher in the West).

Here's just what you'd expect from Delta—a brand new radial drill—specifically designed to handle drilling jobs you *can't* do on a conventional drill press. There is almost no limit to the flexibility this tool puts at your fingertips—and you'll really appreciate the big capacity. The head swivels 360° around the column, tilts more than 90° left and right, travels almost a foot forward and back—yet the work always remains parallel with the base. You can drill to the center of a 32" circle, rout, sand, mortise, do dozens of operations at your choice of four speeds (700,1250,2400,4700 r.p.m.) on a wide variety of materials.

You can count on this tool to extend your skill, broaden your range of projects. And because you know tools, you know you can count on the precision, ruggedness and safety that Delta's 31 years of experience build into tools used throughout industry and in home workshops.

Consider the many ways you can do more jobs better, quicker and easier with the *newest* Delta tool—you'll want to see the Radial Drill in action! Visit your Delta Dealer (he's listed under "TOOLS" in the Yellow Pages) or your leading Department, Hardware or Building Supply Store. Do it soon!

See the world's most complete line of home workshop power tools and accessories—pictured and described in this colorful, FREE Homecraft catalog. Write to: Rockwell Manufacturing Company, Delta Power Tool Division, 556B N. Lexington Ave., Pittsburgh 8, Pa. In Canada: Rockwell Manufacturing Company of Canada, Ltd., Guelph, Ontario.

DELTA POWER TOOLS
another fine product by
ROCKWELL

[*Continued from page* 139]

and you can continue right through, lapping them while the resin is wet. However, you can stop at any point when a full piece of cloth is saturated, let the resin harden and proceed with the next piece at a later time. When the bottom is covered, lap the cloth on the underside of the chine and work down the sides. After the first complete layer is on and the resin is hard, take a disk sander and feather all laps. They can be smoothed so that they're hardly visible. Also sand any resin runs that may have occurred.

A layer of Fiberglas matte and a layer of cloth follow. We applied both at once, saturating the matte through the cloth. Start with the bottom again, laying on sections and overlapping them as you progress with the application of the resin. However, don't press the roller into the cloth; distribute the resin lightly and evenly. Be sure there are no dull spots and work out all air bubbles. Then let the resin harden and sand the whole boat. If necessary, a finish coat of resin can then be applied and sanded lightly.

Removing the hull from the mold is the next step. Start at the transom and simply pull the Fiberglas away to free it. Don't be alarmed at a cracking noise for this is only the mold release giving away. Then continue pulling around the gunwales. After this, thin pieces of oak can be slid under the shell to help break it away up to the chines. The last step is to exert upward pressure on the Fiberglas transom with a pair of bumper jacks and then hammer all around the bottom, using a soft pine block to cushion the blows. You'll be able to hammer with a good deal of force and, before long, the shell will part from the mold. Then lift off the hull and block it upright on the ground for finishing.

Finishing the hull proceeds rapidly from this point. First the inner and outer sheer clamps are installed. To bend them as required, you'll have to steam them. An eight foot length of pipe is capped at one end and two quarts of water are poured in. Then one or two ten-foot strips of ¾x 1¼-inch oak are inserted and the open end of the pipe is stuffed with cloth. With the capped end of the pipe in a fire, the water boils and produces steam in After about a half hour, the wood w soft enough to bend easily. Take it and immediately clamp it in place a the outer sheer. When the outer s clamps are dry, your metal clamps ca opened up to include the inner s clamps. Then, while the metal clamps still in place, drill and countersink p holes for 1¼-inch, No. 8 flathead b screws, spacing them three inches a Drill from the inner to the outer s clamp, right through the Fiberglas. T turn in the screws and release the m clamps. The ragged, projecting edge of Fiberglas can then be trimmed off.

Next the breasthook is installed w 1¾-inch, No. 8 flathead brass screws p ing through from the outer sheer cla Then the chines are fitted in. They're 1¼-inch oak, 14 feet long, and also req steaming at the forward ends. They're fastened but braced in place until o structural members are added.

The ⅝-inch plywood inner tran notched so that it fits over the chines, g in next. It is secured by passing 1¼-i No. 8 flathead brass screws through hull from the ⅜-inch plywood outer tr som. Space the screws around the out at six-inch intervals. Brass angles are u between the inner transom and the in sheer clamps. When the installation is co plete, the outer transom is covered w a layer of Fiberglas.

At this point the keelson is installed tween the base of the transom and t stem. The aft end is cut at a 15° angle a it is recessed one-quarter inch into t transom. The forward end is fitted to stem and is secured by means of 1½-in No. 8 flathead brass screws through p wood doublers on either side of the b joint. Then the frames can be fitted o the keelson. Be sure to cut the limber ho so that bilge water can flow the length the hull along the keelson. To hold t frames, use angle braces at the keelson a at the sheer. On each side, an oak ste rabbeted into frames two and three a secured with glue and screws. Follow the detailed drawing on page 136, the s with the walk-through back and comp

ents can then be installed.

After putting in the floor forward of the eat, an angled piece of ⅝-inch plywood is ted in to serve as a footrest and a sup-ort for a half-inch plywood storage deck the bow. The complete deck and footrest sembly, when covered with Fiberglas, ecomes an air chamber which helps pro-ide flotation in the boat.

The self-draining well is next. Follow he drawings, installing all the plywood anels with glue and 1¼-inch, No. 8 flat-ead brass screws. Before putting in the ottom panel, Fiberglas all the joints with atte. Then, with the bottom panel in lace, Fiberglas the whole interior of the ell to make it completely watertight.

When the frames, seatback and well are nstalled to your satisfaction, they are then onded to the hull with Fiberglas. First, owever, be sure that all the mold release ax is removed from the interior of the ull. We found it faster and easier to use paint scraper rather than the solvent old by the dealer. Any gaps between the ood and the hull are filled with resin and iberglas matte and then the cloth is pplied as shown in one of the photo-raphs. Be sure the limber holes are not locked when the cloth is put on.

The forward deck beams are cut from ¾-inch oak to a 21-foot arc. This gives a rown of three inches at the rear center. Each deck beam is half-notched to mate with half notches in the center beam and s tied into the sheer clamps with angle braces. Other longitudinal plywood braces re cut so that a well for small articles can e formed between the V dash and the traight dash. The two braces on the right xtend into the cockpit to form a mount for he steering wheel panel. When the fram-ng is complete, the V dash and the straight dash panels are installed.

The deck beams are covered with half-nch plywood which is put on in two sec-tions that butt along the centerline. Each section is fastened to the beams with one-inch flathead brass screws spaced four inches apart. Countersink all screw heads just a little below the surface. When the deck is on, the ¾-inch mahogany gunwale cap can be butted against it and continued down each side to the transom. This cap-ping is fastened to the inner and outer sheer clamps with 1¼-inch, No. 8 flathead brass screws spaced six inches apart. Alter-nate the screws between the clamps and countersink for wooden plugs on this finish surface. Then the quarter-inch mahogany plywood gunwale cap can be installed from the butt joint forward to the bow. This forward capping is glued in place and held with clamps until dry.

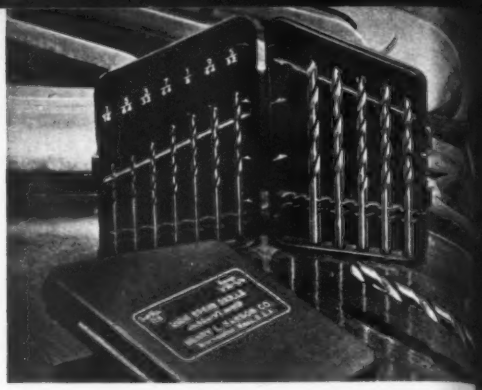
The center deck and the unfinished part of the deck around the well is done next. Each section is fitted with a half-inch ply-wood underdeck which is screwed down in the same manner as the forward under-deck. They may then be finished with strips of ⅛x3-inch mahogany veneer which is glued in place. These same finishing strips are glued down on the forward underdeck after the windshield is in place.

Details of the windshield appear in the drawings on pages 136 and 137. The frame is solid mahogany stock rabbeted for $\frac{3}{16}$-inch Plexiglas and quarter-inch square aluminum which holds the Plexiglas in place. The whole assembly is mounted with screws from the underside when all the woodwork has been finished in the boat.

Installation of the floorboards completes the major woodwork in the boat. After that, a mounting block for remote con-trols and an arm rest are installed on the right side. Before the final trim is added, it's best to do the necessary painting and varnishing.

Finishing is preceded by a general sand-ing of all woodwork. Then the fir plywood gets a coat of Firite followed by a light sanding and two coats of marine enamel. The mahogany is filled and stained in one operation with a paste wood filler. Then it gets at least three coats of spar varnish, the first coat being thinned 50 per cent with turpentine and the others full strength. Sand lightly between each coat and rub the last coat down with a thin paste made of pumice stone and water if you want a satin finish. Last, varnish all the trim and fasten it in place. Then add the hardware and lights and proceed with the launch-ing. We'd recommend at least 35 hp on the transom of Skimabout and anything up to 80 hp can be used. •

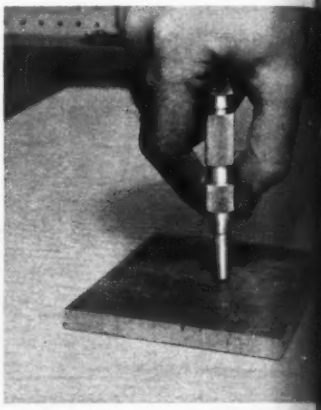
MI's HARDWARE STORE



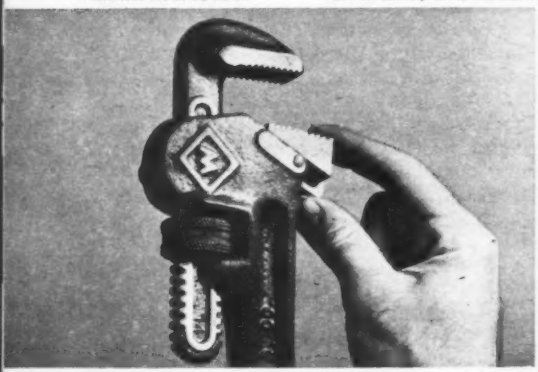
POCKET DRILL KIT contains 13 high-speed drills, 1/16 to ¼ inch, in a polyethylene case; $6.25.
Henry L. Hanson Co., Worcester, Mass.

LITTLE GIANT automatic fire alarm shrieks a whistle at 135° F; $3.98.
Sta-Dri Prod. Co., 147-47 6th Ave., Whitestone 57, L. I., N. Y.

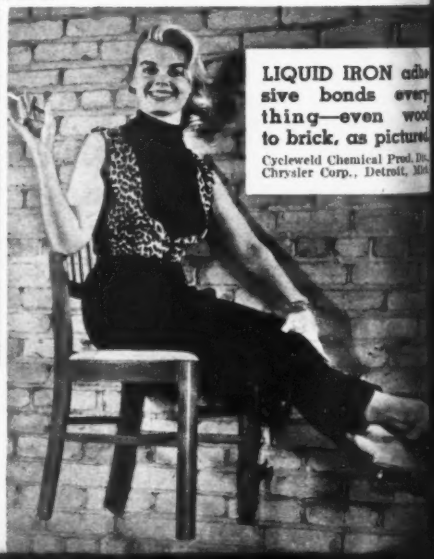
WOVYNFOLD ACCORDION doors make moving walls or room dividers; priced from $9.45.
American Accordion Fold Door, Inc., 175-35 Liberty Ave., Jamaica 33, N. Y.



AUTOMATIC CENTER PUNCH with built-in striking mechanism marks without hammering; $2.75.
L. S. Starrett Co., Athol, Mass.



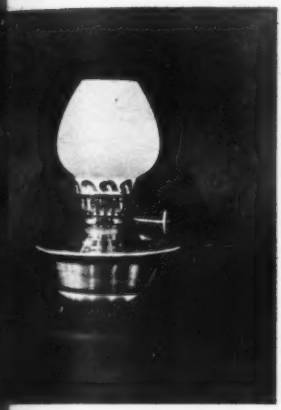
SLIDING JAW of pipe wrench is self-adjusting; 10- to 24-inch sizes $3.50 to $9.55.
Wheeler Mfg. Corp., Box 688, Ashtabula, Ohio.



LIQUID IRON adhesive bonds everything—even wood to brick, as pictured.
Cycleweld Chemical Prod. Div., Chrysler Corp., Detroit, Mich.

TISSUE DISPENSER features self-leveling cover, can be matched with tray; $1.79.
Rubbermaid, Inc., Wooster, Ohio.

SCREW DRIVER KIT has Phillips and regular bits, an extension and handle; $4.88.
Vaco Prod. Co., 317 E. Ontario St., Chicago 11, Ill.



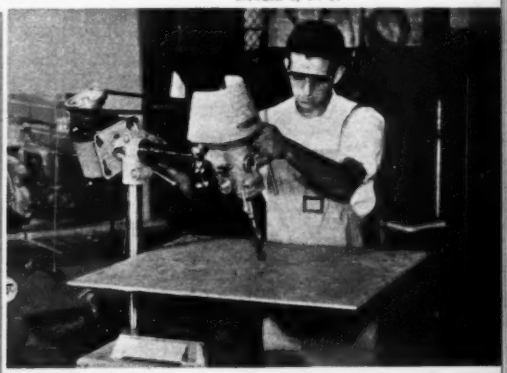
HURRICANE LAMP for boats burns kerosene, rights itself in any weather; $2.25.
Mariner's Mart, Maidstone Boat Yard, E. Hampton, N. Y.

TIMER turns on or off electric appliances at selected hours. Once set, it performs its tasks day after day; $10.95.
The Gift Shop, Dept. MI, Box 3, Menlo Park, Calif.

E-Z-C WINDOW washer dries 'em too; liquid's in hollow handle; $1.98.
Dorothy Damar, 754 Damar Bldg., Newark 5, N. J.

NEW ITEMS

Permanent furnace filters are now made by the Safeguard Corp. Dept. NPM, Lansdale, Pa. . . . Triangle combining protractor, straightedge and scales in one tool is sold for $2.00 by Draft-All Triangle Co., 152 West 42nd St., New York 36, N. Y. . . . W. & J. Sloane's furniture polish is available from Laramie Chemical Corp., Sloane Labs Div., Box 266, Ridgeway Sta., Stamford, Conn. . . . Disposable, heat-proof bags for ashes are being marketed by International Paper Co., 220 E. 42nd St., N. Y. 36, N. Y., $20 for 200 bags. . . . Howard's Tax Saver keeps a daily record of tax expenditures for The Day; $2.95, Charles Howard Co., 5935 University Ave., Indianapolis. . . . Rubbacrete is an adhesive for bonding wood floors to concrete; Rubba, Inc., 1015 E. 173rd St., N. Y. C. . . . A one-tube TV and FM booster by Blender-Tongue Lab., 9 Alling St., Newark 2, N. J.



DRILL PRESS has 32-inch reach for wide stock, four speeds, tilting head; $89.50.
Delta Power Tool Div., Rockwell Mfg. Co., 400 Lexington Ave., Pittsburgh 8, Pa.

BICYCLE RACK

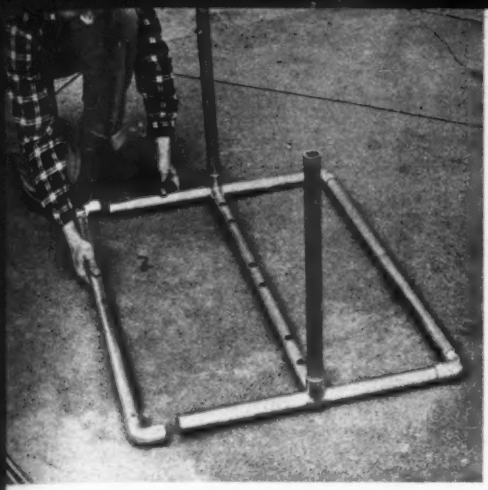
Make this six-bike rack without threading a single piece of pipe!

By John Michaels

SLIP on some fittings and tighten setscrews. Outside of cutting tubing and pipe to length, that's all that's required to build this rack which holds up to six bikes—and it's a great thing to have on the premises when Junior's bike brigade comes calling.

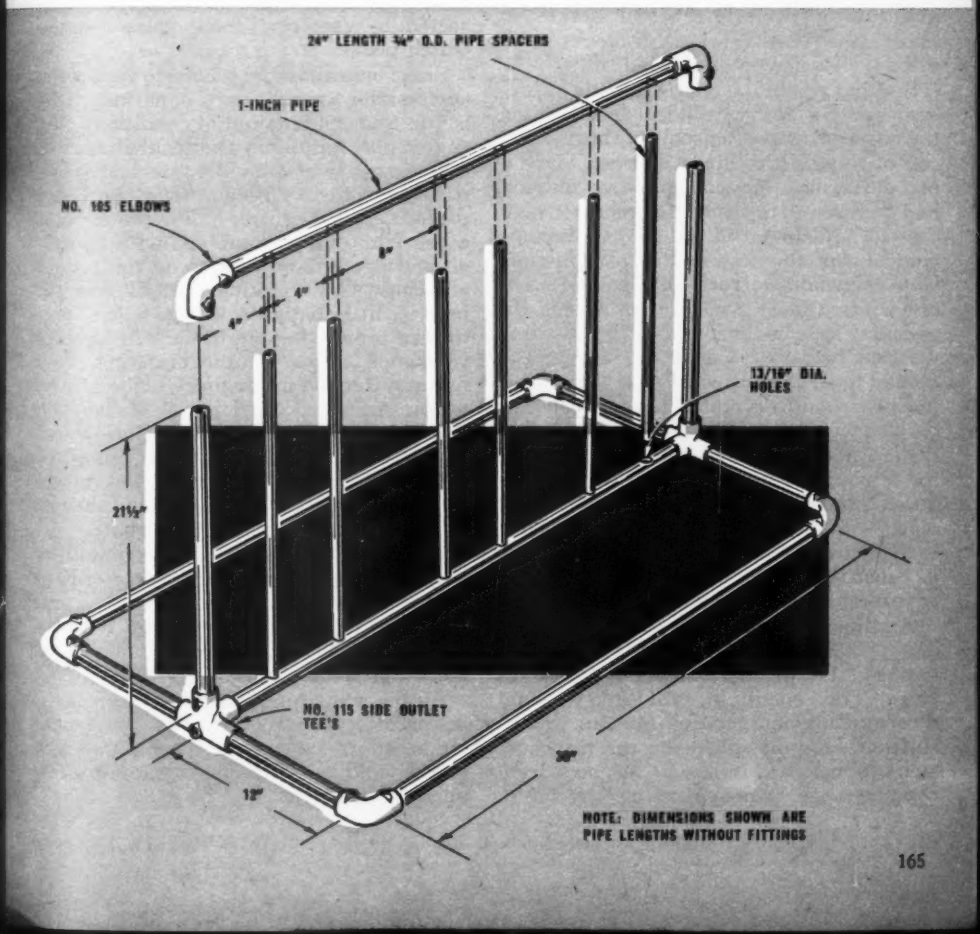
The fittings which make assembly so easy are manufactured by the John Hosking Co., 1704 Howland Place, Cincinnati 23, Ohio, and are sold through hardware outlets. Instead of interior threads, they have setscrews housed in diamond-shaped bosses and these screws are simply turned down on the pipe or tubing. The company makes a complete line of fittings for all types of pipe and tube structures and the handyman can now do a professional job without cutting a single thread. In fact, with the adjustable elbows, tees and other fittings in the line, bending of the pipe or tubing isn't even necessary.

To make the rack, 1-inch and ¾-inch O.D. galvanized iron pipe is first cut to size with a pipe cutter. In the 1-inch piping, you'll need four 36-inch, four 12-inch and two 21½-inch lengths; in ¾-inch pipe, you'll need six 24-inch lengths. After drilling $\frac{13}{16}$-inch holes in the horizontal center sections, spacing them as indicated on the drawing, you just work from the bottom up, slipping on fittings and tightening screws. •



BASE of rack is assembled first. Piping doesn't have to be threaded for fittings.

SPACER PIPES fit into holes in the larger pipes and then the top elbows are secured.



Car Care: Try Something Simple

[*Continued from page* 147]

freeze is alcohol. Some gas tanks are vented by their cap. This recalls a trick used by one owner to foil car thieves. When he left his car unattended he replaced the gas cap with one that was purposely unvented. Without air pressure working in the gas tank the engine would soon run out of gas.

A skip in the engine may be the result of oil being forced up past the piston rings, the result of excessive crankcase pressure. Remedy is to clean out the vents—the oil filler pipe and the crankcase ventilator. A clogged air cleaner will make the engine draw in a higher ratio of gasoline to air. This means lower gas mileage.

Power brakes have a filter in the air intake which can cause trouble with the system if it becomes clogged. When rear axle lube works into the rear brakes an experienced mechanic always checks to see if the housing's vent is clogged.

Serving as a brake on the throttle to prevent stalling during sudden deceleration, the dashpot control on some carburetors is one of those little things that can make a big difference. Maybe you have already had occasion to discover the importance of correct adjustment of the throttle linkage control for the automatic transmission. Clunking and incorrect "shift points" often are nothing more serious than a need for checking this linkage. One driver became worried because of clunking during the second to third shift and found that all his mechanic did to correct the condition was to shorten the transmission rear rod a little. Another driver thought he was due for a fancy repair bill when he found his automatic transmission was sort of undecided whether to stay in third or to shift to high during light throttle operation. This is called "hunting." It was remedied by adjusting for a longer throttle rear rod.

A slipping automatic transmission usually panics most drivers the first time it happens. It's usually caused by a low oil level. This condition will stop normal downshifting and generally means erratic shifting. Low oil will make the transmission overheat and in some cases produce a buzzing noise. Slippage can also be due to an improperly adjusted manual control—a common trouble that is easily fixed.

If your car creeps forward when in reverse, don't run to your psychiatrist. The trouble may be nothing more serious than the need for rechecking the manual control. A low growling often heard when first starting out is produced by cavitation of the cold oil. Just keep going and the noise will disappear.

Ever have the turn indicator light start flashing way below the usual normal rate? It means the trouble is a burned out bulb for the turn signals in the front or rear of car. If both stoplights fail, check the fuse.

The owner of a standard shift car heard noise in the clutch with the pedal up. He figured he was faced with a binding release fork, a loose disk hub or a broken pedal return spring. The trouble was easily corrected by restoring some "play" in the clutch pedal.

Some motorists find it hard to restart the engine after a short period of parking. This is due to a combination of conditions. The engine may be running hotter than normal because of a winter high-temperature thermostat or possibly because of a cardboard placed across the lower half of the radiator core. A hot motor combined with gummy oil and deposits of varnish on the pistons will cause slow cranking. Oil additives will help. A little patience will go a long way toward preventing the battery from being weakened through futile cranking. Wait five minutes and the engine will likely start again. An overlooked cause of fan belt noise is misalignment of pulleys. Now that we have belts to drive the water pump, the air conditioner compressor, the power steering system, the generator and the fan, pulley alignment is most important.

Engine vibration can be diagnosed by taking a compression test. If cylinders have excessive uneven compression the engine will vibrate as badly as though it had a sprung crankshaft, loose fan blades, or "missing" spark plugs.

So try something simple if your car is not perking properly. There's no use making a Federal case of car trouble that may easily yield to a five-cent idea and a few minutes work. •

Duck Decoy

[*Continued from page* 148]

emote control model airplanes. Anyone who has put together radio-controlled model airplane or boat kits can duplicate this project.

Movement of the duck in water is provided by a six-volt electric motor which drives the propeller. A two-tube receiver operates the rudder. The transmitter is part of a kit available in most hobby shops.

The 14-inch antenna wire is concealed by curling it into the hollow of the duck's neck and beak. Battery boxes and relay are glued securely to the base with model cement. Masking tape is painted the same color as the decoy's body for camouflage purposes and is used to keep the decoy's cover on tight enough to eliminate the possibility of water getting inside. •

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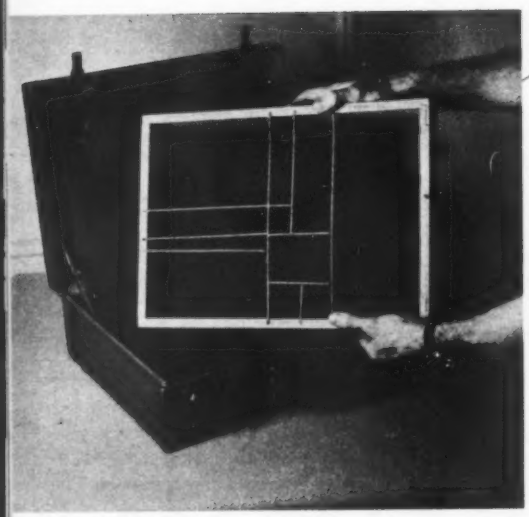
PRINCE ALBERT

PHOTO HANDIES

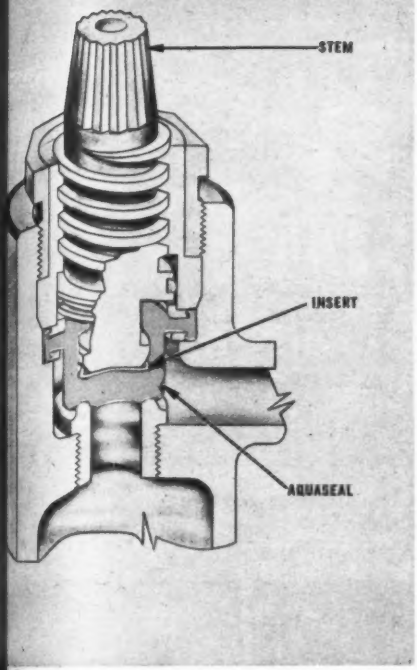
ATTACHE CASE can be converted to an ideal carrying case for your photographic equipment by constructing a partitioned frame insert with compartments so spaced that all necessary paraphernalia can be fit snugly in place.



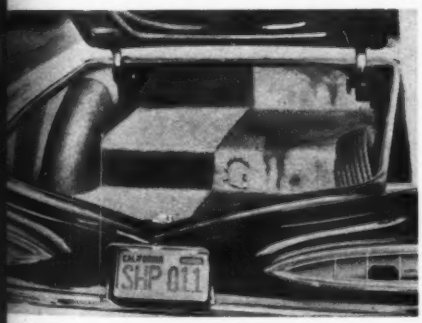
FRAME SIDES are of ¼-inch stock; partitions are ⅛-inch plywood. Partitions span facing dadoes cut into sides of the frame.

CLIPBOARD makes a handy platform for holding photographs securely while you do those tinting, touch-up and spotting jobs.

WHAT'S NEW?



LEAKPROOF faucet has diaphragm instead of washer. The stainless steel insert acts as a bearing plate for the moving stem.
American Standard, 40 W. 40th St., N.Y.C. 18



WORN car trunks can be spruced up with do-it-yourself Flok-Kraft kit. The material is sprayed on and dries to a velvet-finish.
Flok-Kraft, P.O. Box 61607, Los Angeles, Calif.

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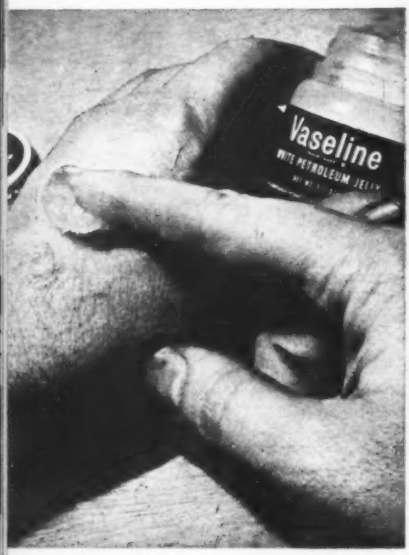
STAT eliminates brush cleaning by preventing paint from hardening on bristles. Even months later, the preparation can be brushed out on paper, leaving brush ready for use.



COAT your hands with Vaseline before starting a paint job and they will be easy to clean when the work is done.

WAX PAPER disk, pressed down around rim of can, will keep a skin from forming on the paint if you interrupt work.

NOTCHED plywood cover prevents thickening of paint in can when you are working in the sun.

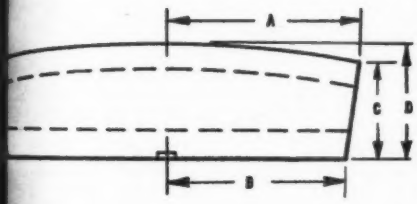
Paddle Boat For Kids

[*Continued from page* 119]

l pieces to size as shown in the drawing. Next, glue and screw the side panels to e cross frames. Install the ¼x¾-inch k center batten as shown, notching it rough each frame and half-through the ansom. Plane the edges of frames and de pieces to insure a snug fit for the lexiglas and the top and bottom Tem-ered Masonite panels.

Fix the window to the bottom of the tch well with ¾-inch brass wood screws 1½-inch centers. Drill and countersink e Plexiglas before bedding it in an even yer of waterproof glue, then secure it ith wood screws. The deck and bottom nels are similarly glued but are nailed ith Anchorfast boat nails. When the ue dries, plane the edges flush with the des.

Saw out the hatch opening above the lexiglas and glue and screw the hatch mbings in place. The hatch cover is ⅛-ch Tempered Masonite over a ¾-inch ipe frame; attach it along the forward dge with a brass piano hinge. Secure the ose block in place with screws and shape to the contours of the boat. Fill screw oles with plastic wood and sand smooth. asten the half-round gunwales in place, hen apply a good undercoating to the boat llowed by a finish coat of marine paint. •



STATION NO.	DIMENSIONS IN INCHES			
	A	B	C	D*
1	9½	9⅜	1⅛	1¾
2	10⅜	9-11/16	4½	5¼
3	10¾	9⅞	5¾	7
4	11-1/16	10-13/16	1⅛	2
5	11⅛	11	1-1/16	2
6	11⅛	10-3/16	5¾	6¾

OVER-ALL DIMENSION; USE TO SELECT BOARD WIDTH.

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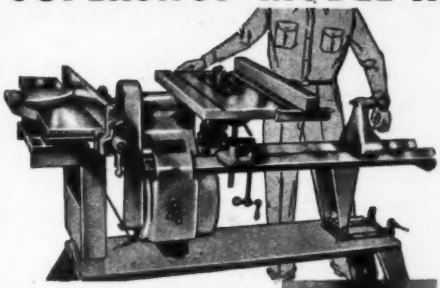

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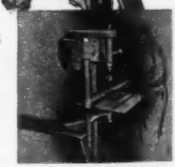

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Hor. Drill Press

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30" Lathe

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Tom McCahill Reports on:

The Killer—Carbon Monoxide

Any grammar school kid with an IQ of 2 knows that a typical automobile engine produces poisonous carbon monoxide fumes. This deadly gas is odorless and invisible and packs enough wallop to kill the entire population of Rhode Island on a tankful of fuel—if conditions are just right.

Yet few people worry about carbon monoxide dangers, figuring it's out the rear stack, which makes it a problem for the daisies, not them. Even an audibly leaky muffler doesn't excite the average driver too much because you rarely hear of a guy dying from leaking exhaust fumes. However, carbon monoxide can cause you to kill yourself. In the end you're just as dead either way.

The F.B.I. felt strongly enough about it to make an extensive search some years ago into the part carbon monoxide played in many unexplained accidents. They found that truck drivers on long hauls frequently fell asleep and went off the road—probably from drowsiness caused by carbon monoxide from a muffler or manifold leak.

Carbon monoxide can make you kill yourself by slowing up your reaction time to a point where stepping on the brake to avoid running over Aunt Nell becomes a major chore.

To ignore a faulty exhaust system is like playing catch with a bottle of nitroglycerine. My advice is to check your muffler and exhaust system regularly—and if you find any signs of corrosion or leakage, have the faulty part replaced right away. AP mufflers and pipes are the endurance champs in their field, because they have thicker, coated steel. AP is the world's largest manufacturer of replacement mufflers and pipes with over 100,000 dealers. Look for the red and white AP "Free Muffler Check" sign at stations everywhere. They sell mink coat mufflers and pipes at muskrat prices.

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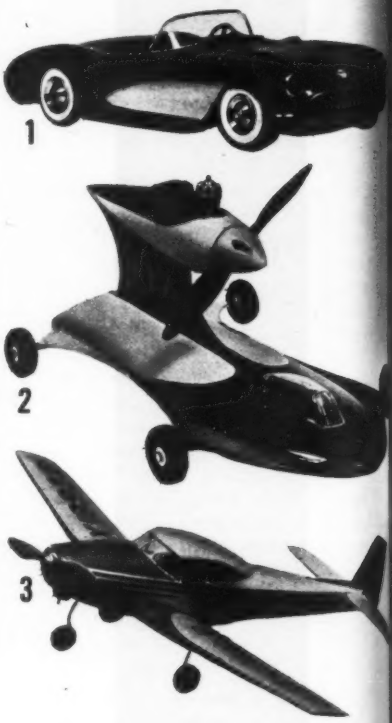

1. Here's an 18-inch scale model of the Chevrolet Corvette. It has a Fiberglas body, takes a .14 gas engine and will do about 40 mph. Real head and tail lights add the realism.

2. Scamper is a powerful propeller-driven car or boat that will speed down a runway, at the end of a tether over the water at speeds ranging from 20 to 40 mph. Length is 15 inches.

3. The North American Navion is a smooth-flying control-line model. It has a 36-inch wing span and takes .19 to .49 engine. Plans include photos, material list and instructions.

Send 50¢ for each plan ordered to Mechanix Illustrated Plan Service, Fawcett Building, Greenwich, Connecticut

Please send me the plans I have checked. I am enclosing the required amount.

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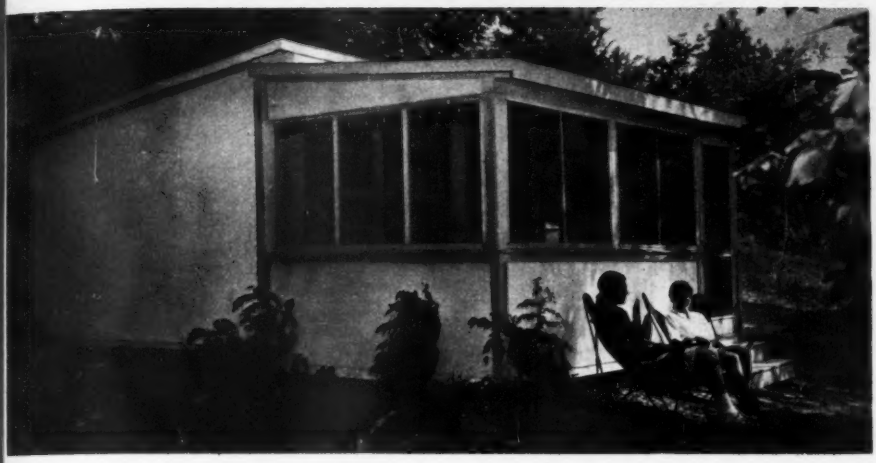

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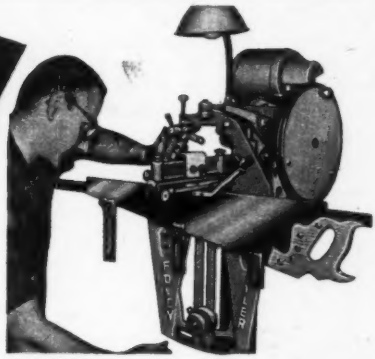

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The '60 Pontiac

[*Continued from page 92*]

brought word that Hasinger had a big deal pending in Philadelphia and must be back the next morning. So, thoroughly pooped and again in the dark, we banged our way through the mountains until we got to some hardtop and then made our way to Knoxville, Tenn. to leave Dave at the airport. The next morning at five, after a good night's sleep, McMichael and I pulled out of Knoxville heading for home, loaded to the roof not only with our equipment but the gear of several other hunters. It was a long tedious pull through more than 50 towns but that night, 737 miles later, we pulled into my driveway, not the least bit tired. The reason we weren't tired was that the Pontiac handles like a polo pony and steers like a feather.

In addition, we had a new gimmick known as "Magi-Cruise" which is a real poor man's version of the "Auto-Pilot." This job keeps the throttle set at any position pre-determined by you, which cuts driving effort on long trips by at least half. To get it into Magi-Cruise you bring the speed up to say 55 or 60 mph on the level and just tip the brake pedal with your foot. This locks the throttle in that position. To get out of it, just touch the brake pedal again lightly and the whole thing's called off. Unlike the Auto-Pilot, it doesn't compensate for going up or down hill and you might suddenly find yourself doing 80 mph where you had been doing 50 mph a moment before. However, it is simpler to reset than the Auto-Pilot, once you get the hang of it, and it's easier to increase speed by just a couple of foot movements. The whole Magi-Cruise unit sells for just over 12 bucks, which makes it a real bargain. Any guy who buys a Pontiac and intends to go further than the drugstore will find the Magi-Cruise can also save him quite a lot of gasoline by keeping his throttle pressure rock-steady.

This Pontiac took quite a few miles before it was really broken in—in fact, just over 2,000. Suddenly the gas mileage jumped from 12.5 mpg to 16.5 mpg. The power plant was Pontiac's full-house Tri-Power job which won't have to take a back seat to any performance car in the world. As most of you know, Pontiac has been the

Speed King at Daytona Beach for some time in the flying mile and in 1959 it took the standing-start mile also. Our Bonneville test wagon, with a 900-pound load aboard, including passengers, can still break under nine seconds for 0-60 and top 120 mph by a mile or two. Unloaded and with just the driver aboard, this big flat-backed wagon will ring off 0-60 mph in 8.2 seconds and just about cream all the dragsters you're apt to bump into at a traffic light.

I got my first crack at the 1960 Pontiac many months ago when I tried out a sedan in Michigan. The big news at Pontiac was not the fact that it was the champ of the medium-priced field in sales *and* performance but that many people considered the '59 model the best-looking car on the road. Despite this, Pontiac prexy Bunky Knudsen and his pixies elected to make another complete style switch for 1960—a real gutty maneuver when you are leading the pack. As Knudsen explained it to me, trying to carry the same styling for two years has proven harmful to some other companies, even though it was the best-looking at the time. Whether you think the new '60 Pontiac is better-looking than the '59 is a matter of conjecture—some do and some don't. The only fault I can find is that the '60 is not as easily recognized as the 1959 model. By mid-1959 almost anyone could spot a '59 Pontiac coming down the road a block or two away, due to its unique grille. The 1960 car might look like one of several makes until you get fairly close.

I don't pretend to be an authority on styling but I must point out that Pontiac styling for 1959 was outstanding. Knudsen thought it was responsible for at least 50 per cent of the car's success. However, he probably was smart to switch, as the 1960 Edsel started off with an almost carbon copy of the '59 Pontiac grille and the Edsel was out of business before Thanksgiving. Knudsen once told me that the automotive business is the biggest poker game in the world: make the right guess and you're a hero, make the wrong one and you're a bum. No one in the world can fathom the public's likes and dislikes from month-to-month. In the privacy of his home Knudsen also told me under direct interrogation

[*Continued on next page*]

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that the top athletic ability of his cars was undoubtedly responsible for the other 5 per cent of their success.

Back to the 1960 Bonneville Safari: We selected the station wagon for this test because the sedans are just sedans, like many others. The reason the Bonneville has appeal is because in its station wagon suit it still has enough moxie to outrun and outdrag just about any other sedan in the world—and that's a pretty good trick. Unlike many wagons, this one is loaded with features, one of which is the new dome light which has a small spot that can be directed to any part of the interior, such as a map being read by one of the passengers. The air conditioning is excellent. In cold weather, though, unless the heater is on Full position, back-seat passengers stand a good chance of being frozen like popsicles while the driver basks in tropical comfort.

The oil and temperature gauges are strictly for the birds, being of the idiot light variety, and gave me a great deal of concern when I was bouncing the crankcase off rocks. If I had punctured the case I might have done a lot of damage before I found out. By the same token, the heat gauge doesn't turn red until the engine is already nine shades hotter than a naked Nigerian in a tank of Sloan's Liniment. The bumper jack that comes with the car is hardly designed to bring smiles to your insurance agent's face. The headlights are the same as on most other American cars today—lousy. They are especially annoying when there's a big load in the back and you are hitting the oncoming drivers right in the puss with your low beams while your high beams are zooming over the trees. However, these are bad design faults common to many other cars today.

In summing up, the Pontiac Bonneville Safari can outrun just about any sedan made. The suspension would be a lot better with some more stiffening. The car is a little too sloppy around some bends. However, after a few hundred miles of driving you learn how to compensate for this very well by squaring the corners quickly, instead of making big arcs. The car is extremely comfortable and on a long trip you won't miss not being in a sedan one bit. The steering is excellent, the Hydramatic transmission is the best—and we

definitely proved the ruggedness of the chassis.

The 1960 Pontiacs are good-looking, though not as distinguished as a year ago. They are top performers and thoroughly comfortable, which is quite a package when you stop to consider that underneath all this you are driving the Performance King of the Nation. •

McCahill Tests Dodge

[*Continued from page* 96]

through feature, mounted high and easy to read. The styling is trim and, in my opinion, good-looking. In fact, the entire package seems to contain all the ingredients to make it an attractive and reasonably-priced buy. Add the fact that it utilizes the Chrysler torsion-bar suspension, best in the industry, and you have a lot of reasons for looking deeper into what the Dart may prove to be.

I have been an automotive consultant to DuPont for some years. About two months after my Dart test, I got a phone call from the company one day when I was on my boat. They said they were looking for a car to use on a rugged run from Seattle to Alaska and the Arctic Circle to test out some anti-freeze. They asked me to pick out a new car for them to run.

Considering the rugged terrain to be covered, which might include snow, rough dirt roads and just about everything you wouldn't expect on a turnpike, I knew suspension had to be an absolute must. Since DuPont wanted a full-size car without oversize, the Dart was my selection. A couple of weeks later, Bill Carty, Advertising Manager of DuPont's anti-freeze division, picked up a Dart and headed for Seattle. Here are some of his findings (and if you read the papers regularly you must know that DuPont doesn't own any Chrysler stock—in fact, they own roughly 23 per cent of General Motors).

On the open roads where speed limits are only a suggestion, he kept the Dart running between 75-80 mph wherever possible. Despite this hard break-in, when the Dart arrived on our northern West Coast it had averaged 17.8 mpg at the

[*Continued on next page*]

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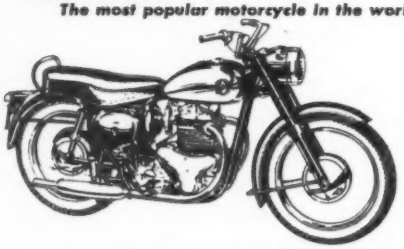

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highest cruising speeds possible. The only complaint the DuPont boys had was that the windshield wipers lifted away from the windshield at speeds above 60 mph.

After the trip to Alaska started, over open gravel and dirt roads before the AlCan highway was reached, speed was held to around 80 mph. It was on this gravelly dirt road that the advantages of the new Unibody construction became apparent. As stated earlier, these body-and-frame units are dipped, not only to seal against corrosion but to fill any seams as well. There were three cars in the caravan: two almost-new '59 cars and the '60 Dart. All the clothes, duffel, camera equipment, etc., carried in the two '59 cars were covered with a layer of fine, whitish, gritty dust—even in the trunks. The Dodge Dart, with its sealed Unibody, remained absolutely dust-free.

The test trip was an entire success and the Dart made it to the Land of the Eskimos without a balk. The best way I can show you how Bill Carty felt about the car is to tell you the first thing he did on his return home was to order a brand-new Dart for himself. I understand one of the other DuPont boys on the run did the same thing. To say the least, DuPont was thoroughly satisfied with my selection—which was peachy because if I'd goofed I'd probably be working for McMichael's Amalgamated Chemicals next year.

One thing this Dart is going to do is to show us all pretty quickly whether or not Americans want smaller, easier-handling cars. During the course of a year I get many letters from readers who claim they need lots of interior room but want to know why our standard cars must be so big on the outside with such ramp-like overhangs. Well, if they really want a car with ample interior dimensions but not too much bulk on the exterior, this Dart, with its large choice of engines from an economy six to a wildcat double-barreled V8, should provide a pretty obvious answer.

In summing up, the Dodge Division of Chrysler has had a few good years and a lot of lean ones. The full-size car, right in the middle of the medium-price field, has had to face competition that was the roughest in the entire industry, from such makes as Mercury, Pontiac, Olds and all the deluxe models of the Big Three. Dodge

has always been a good car. But so have some of the others. The Dart is actually unlike anything Dodge has built in many years. It is a car with a medium-price name selling in the low-price field and ready to undersell all but the panic models of the Big Three. If the boys keep screwing them together right, the Dart should once again put Dodge among the five top-selling cars in the world. If it doesn't then you can discount all that talk about "what we want is a small car with lots of room" as just so much heated air. •

About Your Mind

[*Continued from page* 87]

final average came out much higher than could be accounted for by chance alone.

Some of the subjects were better than others. One girl, locally known as psychic, averaged 18 hits out of 25 in 74 runs. Once she guessed all 25 cards right. This fantastic feat was also repeated by a man and a girl of ten.

Clairvoyance. If telepathy is mental radio, then clairvoyance can be called mental television. To prove its existence, Rhine had his aides "tune in" the ESP cards as they were dealt at random out of sight. Through a total of 12,000 runs, there was an average of 5.83—a fraction higher than the pure chance figure of five.

Psychokinesis. Can crapshooters "control" the dice? To find out, Rhine had his aides throw dice, "willing" the dice to come up seven. And they did, many more times than chance would allow. During one run, one student made the dice roll exactly as he wanted, anything from snake-eyes to boxcars, more than half the time.

Precognition. The so-called Sixth Sense has many names—intuition, hunches, premonition, prophecy. Among many substantiated incidents is one of an officer during the war who refused to board a certain military transport, having a strong "hunch" something would happen. The plane left without him and later crashed, killing 12 men. Two cases are on record of people who were "warned" by dreams that the Titanic would sink and cancelled their tickets. History proved how right their

[*Continued on next page*]

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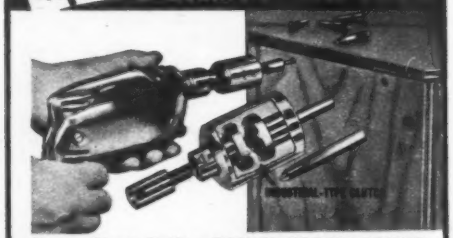

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"superstitious" fears were.

Psychogenesis. Are there authen cases of faith cures? Dr. Alexis Car noted English surgeon, witnessed what regarded as true "heal thyself" mirac at Lourdes. And modern psychosomat medicine teaches that a healthy mind c create a healthy body by using power psychogenic forces that we have with us. Cancer specialists are admitted baffled when an occasional "terminal" p tient, who is supposed to die in weeks, w live on for years with his deadly tumo completely vanishing.

Inspiration. Ask any genius where th idea for his great discovery or inventio came from and he will shake his head. just pops into his mind, out of nowhe Could we all summon up inspiration a become geniuses, if we knew how?

Rapid Calculation. Many unschool people have performed incredible ment feats, like human adding machines. Zer Colburn of Vermont, a lightning calculat at the age of six, figured out the numb of seconds in a century, how many kerne in a ton of corn, and the count of sa grains in a bucket—all in his head witho paper and pencil. He needed only secon while trained mathematicians took hou to check his answers, which were alway right.

The power of suggestion, astral proje tion of the mind free from the body, auto matic writing—there are many othe psychic mysteries to be proved true o false. No one can positively "prove" an of them wrong, because no one yet know just how many wave lengths there are t the "mental spectrum."

Even if some of these mental wonde wait for revelation, what scientific too can possibly bring them to light?

Researchers have already instituted in genious methods. The electro-encephalo graph has charted alpha, delta and thet brain-waves which indicate our nervou system is electrical in nature. The topo scope reproduces brain patterns with a electronic brain to determine what make minds "tick."

In the chemical field, a research clinic found that secretions like serotonin block nerve impulses and are seeking an antidot that will release super-speed nerve im pulses to double the brain's thinking ca-

pacity. Dr. John L. Fuller, psychoneurologist, theorizes that if enzyme deficiencies can cause morons, then the "opposite number" of those enzymes should create man-made genius.

Dr. J. P. Guilford, of the University of California mental research lab, is "mapping" various areas of the brain that control separate functions. He stated recently that the mind has "40 dimensions," most of them unknown. Another scientist lists all known mental abilities like the table of elements, with many spaces empty for new mental marvels to be discovered. To all these men the evidence is strong that our "mental spectrum" has missing gaps to be discovered. As it did with X-rays, Hertzian waves, radium's gamma rays, and the rest of the electromagnetic spectrum, science must chart the "wavelengths" of the mind.

An invisible universe—the human mind—awaits exploration by a new breed of adventurers. •

Save Money At Auctions

[*Continued from page* 79]

chandise makes up most of the sale bills at some auctions, while second-hand goods are sold almost exclusively at others. A few sales feature both. If you are looking for new or used items, you should determine which auctions sell what. For instance, nearly everything sold by the Bureau of Customs is new, except cars. Virtually everything found at police auctions is used. Post Offices sell both new and used items.

Merchandise lands under the auctioneer's hammer for a variety of reasons. Items sold by police are those seized as evidence, or lost property whose owner could not be located. Trucking firms take possession of damaged shipments after paying off claims and seize household goods for non-payment of shipping or storage charges. Customs auctions dispose of goods seized from smugglers and merchandise that is abandoned on the docks in lieu of paying customs. Post offices sell the contents of parcel post packages which cannot be delivered and damaged merchandise on which claims have been paid.

[*Continued on page* 185]

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SAWS—PLANES—MOLDS

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6 more only. .
1 full doz...$4.

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1,001 uses. Stainless shaft. Won't rust or
Use ½ HP motor or larger. . . . ¾ HP
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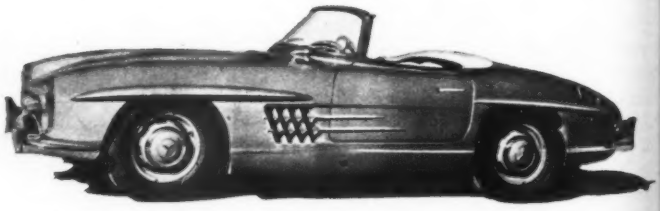

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Save Money At Auctions

[*Continued from page* 183]

One of the secrets of auction buying is knowing that a radio, refrigerator or outboard motor listed as "damaged" may be virtually as good as new. However, some "damaged" items are nothing more than junk.

A word of caution: as a rule, nothing is guaranteed and there are no refunds. Damaged goods are sold "as is"—meaning if your purchase is in worse shape than you thought, you're stuck. Second-hand goods may be well-used or like new. Laws vary from state to state but when you've bid on anything you usually cannot back out.

Auctions normally embrace three procedures. First, there is a day for viewing and examining the goods. Next day comes the sale, when bidding usually is done from catalogue numbers with the merchandise not in view. The buyer is required to pay from 20 to 50 per cent of the sale price immediately after the bidding. On the third day, the items are picked up by the buyer after the rest of the purchase price is paid.

Most government groups and businesses which hold regular auctions mail out notices of upcoming sales to potential customers. A written request will put your name on most mailing lists.

Here is a short list of where to look for auctions and the type of goods generally sold:

Post offices. Damaged new goods and second-hand items from dead parcel post packages. Fifteen post offices handle dead parcel post. To get on the mailing list of the one nearest you, write to the Superintendent of Claims & Inquiry at the General Post Office in: Atlanta, Boston, Chicago, Cincinnati, Fort Worth, New Orleans, New York, Omaha, St. Louis, St. Paul, San Francisco, Seattle, Washington, San Juan or Honolulu.

Bureau of Customs. Used cars and confiscated goods, usually new. Write to Bureau of Customs, U. S. Treasury Department, Washington 25, D. C., for the address of the office nearest you.

Law Enforcement Agencies. Includes big-city police departments, town constabularies, state police, county sheriffs. Merchandise is anything that might be

[*Continued on next page*]

$500 in 4 months spare time

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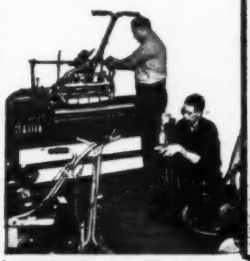
"No one can go wrong with the Foley machine"—V. J. Patterson wrote us. Get in this CASH business where 99c of every dollar is YOUR profit! The Foley Lawn Mower Sharpener handles up to 3 or 4 mowers per hour. Hand mowers run $2.00 to $3.00—power mowers $5.00 to $8.00.

FREE PLAN shows how to start. Foley prices are low—easy payments available. Send coupon today—no salesman will call.

"In my home town of 5,000 I paid for the Foley 4 or 5 times over the first season. I also put a $1035 oil furnace in my new home." —B. Mathews.

"We sharpened nearly 1000 mowers our first season and gained a reputation for the best work."—J. W. Kemper.



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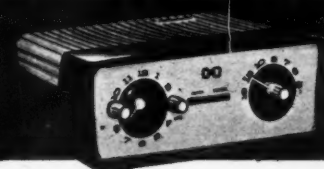

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NEW U.S. SPORTSWEAR HIT! Bought in Germany: a limited supply of the original HIGH-FRONT 'mountain' style of this summer's popular AFRIKA DESERT CAP.

All new, fully lined. Unique 2-position pull-down earflaps to cover either (a) your ears alone or (b) both neck and ears. Colors: Mountain green, navy blue, field gray, $5.95 plus 35¢ postage. State size & color. (Genuine Edelweiss mountain troops' cap-insignia, in gold and silver toned metal, $2.50. Catalog of German daggers & steins free.) Ainsworth Co., Dept. MI-10, 158 E. 38 St., New York 16, N. Y.

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14 FT. CATAMARAN BOAT KIT

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FREE COLOR CATALOG

TAFT MARINE WOODCRAFT
Dept. MI-260
636 39th Ave. N.E.
Minneapolis, Minn.

seized as evidence, or lost property. Contact local police departments.

Armed Forces. Surplus goods, new or used. Sales usually are at auction or by sealed bids. Most military bases—whether Army, Navy or Air Force—have a property disposal officer who collects surplus until he has enough for a sale, which may be only once a year at small bases but as often as every three months at large ones. Most bases send out catalogues of property to be sold to a mailing list of prospective buyers. Write to the commanding officer or property disposal officer to get on the list. Indicate what general type of surplus interests you.

General Services Administration. All types of property, land and merchandise are handled by Uncle Sam. Surplus, normally second-hand, is sold when there is no longer need for it. GSA sales are handled by local or regional offices. Write to General Services Administration, Washington 25, D. C.

Other Government Agencies. Some federal government branches choose to hold their own auctions. Included are the Veterans Administration, Internal Revenue Service, Interior Department, U. S. marshals' offices. Local government agencies which hold periodic auctions include city sanitation departments, highway and street departments, state conservation agencies, etc. Items usually are second-hand. Because these auctions are held only when needed, look for announcements in newspapers or make periodic inquiries.

Railroads. Largely damage-claim goods, mostly new; articles are anything that might be shipped via rail. Write to the chief freight claims agent of each railroad.

Bus Companies. New damaged goods and second-hand personal property left on buses. Write to the chief claims agent of each bus line.

Air Lines. Second-hand personal property left on planes and unclaimed baggage. Write to the main lost-and-found department of individual companies.

Truck Lines. Includes household moving and storage firms and freight lines. Household furnishings, usually second-hand, and damaged goods. Write to the chief claims agent of local and long-distance lines in your area.

Terminals. Lost property and that aban-

doned in lockers and check rooms of air, bus and rail terminals. Information can be obtained from individual terminals.

That sums up what you should know about auctions. If you write to the agencies mentioned above and keep an eye on your local newspaper, you have an excellent chance of walking off an auction lot with the best buy you've ever made.

Good luck! •

Out Of The Mailbag

[*Continued from page* 76]

buzzer that will hurt their ears when sounded. Place it near the kennel, then act as if you are going away. Hide from the dogs and sound it as soon as they bark. After a dozen or more treatments they may stop. But even this is not infallible. You just might have to move or sell your hounds and start over. The time to stop such barking is when they are pups in training.

Where is the best goose shooting in the United States to be found—east or west?

Marshall Whiting
San Francisco, Calif.

Along the Pacific Flyway, by far. All you have to do is to look at the daily bag limits for each flyway to determine this.

I like to fish for and fight big carp, but my husband and friends all laugh at me and say I'm crazy—and worse. What do you think of carp fishing? Come on now, tell the truth.

Helen Roberts
Memphis, Tenn.

Good for you, Helen. I think carp fishing is first class sport. I'd rather catch 20-pound carp on light tackle any day than eight-inch trout. And believe it or not, there are a lot of carp around in the 20-pound-plus class. Anyone who laughs at carp fishing just ain't been initiated, that's all. You can catch them on wet flies, too, if you're good enough.

I have a 10-hp outboard that works fine till I use it for trolling. Then it fouls up in short order and leaves me with a plug-cleaning job, usually just when the fish are biting best. What's wrong? Friends tell me I need a five-hp motor for trolling.

Larry Seidman
Cleveland, Ohio

Your trouble is undoubtedly your mixture of oil and gasoline. Write to the manufacturer for the proper trolling mixture for your motor. But don't use this mixture for water-skiing or long, fast runs.

[*Continued on next page*]

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50 Models 8—18 Ft.

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18 FT. CRUISERS, 8 Models: from $379

12, 14, 16, 18 ft. runabouts, ski-models, convertibles, utilities: $114 up. 8, 10, 12, 14, 16, 18 ft. racing, fishing, utilities: $41.95 up.

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Interlocking units (lower right photo) snap together, bend into 1-piece boat easily assembled in one evening.

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MODEL No. 1.....$14.85
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MOTO-TOOL KIT No. 2 (as shown) Incl. Model No. 2 Moto-Tool, 23 accessories (high-speed steel cutters, grinding wheels, etc.) in a sturdy storage case $27.50

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Fit your outboard motor with the MICHIGAN PROPELLER designed to give you greater thrust, quicker pull-ups, more skiing buoyancy. Send postcard for your FREE copy of our new 1960 OUTBOARD CATALOG NOW! It contains propeller recommendations carefully engineered to provide better performance for every specific motor-boat-load combination — skiing, speed, cruising or all around operation; also, fine skis, boat accessories. MICHIGAN WHEEL CO., Grand Rapids 2, Mich., Dept. MI

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BUILD A PONY ROADSTER or Pick-Up in few spare hours. Uses 2 hp engine, 450 lb. loads, 70 m.p. gal., plenty of speed. Great for kids, sturdy utility car. Designed for VERY LOW-COST assembly from PARTS BOUGHT IN YOUR NEIGHBORHOOD. Use home tools. COMPLETE step-by-step plans. 17 Large-size pages. 30 "show-how" photos. Body templates, complete material, parts list and hood insignia. ORDER NOW. ONLY $2.95 postpaid. Satisfied or money back.

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NEW MAGIC RADIO WALKIE TALKIE!

YOUR OWN POCKET SIZE RADIO STATION!
BROADCASTS TO ANY HOME OR CAR RADIO WITHOUT WIRES OR HOOKUPS! Wt. only 6 oz. Size 1½x 2½x4½". Built-in antenna. Transistor-powered. Runs for weeks on self-contained flashlight batteries. Durable plastic case. With this Radio Talkie you CAN TALK TO YOUR FRIENDS OR BETWEEN TWO OR MORE CARS for some distance! INSTANT OPERATION! No license or permit needed. Useful and real fun in a million ways! GUARANTEED TO WORK.
(cash, ck, mo) and pay postman $9.99 COD postage or send $12.99 for prepaid delivery.
COMPLETE READY TO OPERATE with instructions and hundreds of ways and tricks for broadcasts thru any radio you desire. Get your NEW 1960 Model Super Powered RADIO-TALKIE NOW. Available only from: Western Radio, Dept. TMI-2, Kearney, Nebr.

We plan many weekend camping trips this summer after school is out. Is it true that water running over rocks purifies itself every 100 yards? We read this in a magazine recently, but our biology teacher says this isn't true.

Charles Sprague
Little Rock, Ark.

Your biology teacher is correct. Take along any one of the several water purifiers on the market and sold in drug stores. And use it. Or boil all your water for *at least 20 minutes* even that in which you wash your dishes.

Good luck now, and keep the letters coming. •

Biggest Racket

[*Continued from page* 99]

important every year as the sound level of everyday life increases.

Scientists measure the loudness of sound in decibels. On a meter a whisper registers about ten decibels. A noise 100 times louder than a whisper produces only 20 decibels because sound intensity is measured logarithmically and not arithmetically.

The blast of a steam whistle and the clatter of a riveter send the needle quivering to the 100 mark. These sounds are *one billion* times more intense than ten-decibel whispers. The loudest sound that can be heard without pain is about 130 decibels. That's about like a jet plane flying 100 feet above you. Man-made noises can hit 150 decibels—close to the peril level. A physics teacher at UCLA states that "A level of 160 db is lethal for many animals. Mice and rats exposed to such intense sounds perish from the resulting rise of body temperature."

Doctors have no doubt that noise affects the body. Dr. Heinz Gartmann of Germany points out that high intensity sounds cause the heart to pump increased quantities of blood, thus congesting many vital organs such as the skin, lining of the stomach and the brain.

From the late Prof. Fernand Tremolieres, a member of the French Academy, known as "Dr. Silence" because of his vast work in the field: Man-made noises can cause not only mental troubles but organic diseases leading to hardening of the arteries and ulcers.

Intense noise can affect the behavior of a number of glands. It can impair the

productivity of the male reproductive organs, according to Long Island University researchers.

Noise can literally drive you crazy. A report published in The Archives of Physical Medicine And Rehabilitation recently said that continued exposure to 80 or 90 decibels can bring on a neurosis.

From Dr. Fabian Rouke, head of the psychology department at Manhattan College, N. Y.: Noise can "trigger violence," leading to assault or even murder.

For several years now there has been a flood of claims all over the country from workers seeking compensation for occupational damage to their hearing due to noise. According to Occupational Hazards magazine, a technical journal, these claims, if allowed, might well drive many companies into bankruptcy.

This, then, is the scope of the noise problem in America today. Up goes the decibel count and up goes the danger. What can be done?

There are answers. Noise can be toned down considerably—in home, office, factory or an entire city. The Memphis story is one example of what an ear-bent citizenry can accomplish.

Other cities are following suit. The cities of Lincoln, R. I.; Manasquan, N. J.; and York, Ala., have passed ordinances to cut noise. Tough new zoning laws designed to control industry and the noise it generates are in the works in Cook County, Ill. Phoenix, Ariz. is going to measure the "music" of ice cream trucks to see that it doesn't disturb its citizens unduly. In Philadelphia, Pa., police are issuing about 500 summonses a week for unnecessary horn blowing.

In factories, the most efficient single weapon in the war on noise lies in the use of sound-absorbent building material. Lining ceilings and walls with the porous stuff to trap and hold sound waves instead of reflecting them helps enormously. The use of sound baffles is also extremely effective.

On the jet aircraft front, the frantic and costly efforts of the aviation industry to tone down the screams have been fully publicized. The Boeing Aircraft Corp. alone has spent more than $15,000,000 on jet engine noise suppressor projects.

The noise of living is growing louder,

[*Continued on next page*]

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THIS is that jewel of a machine tool you've been looking for—if you're the kind of craftsman, hobbyist, model builder or inventor who demands all-out precision. It's hard to believe that such versatility, such high-level performance could be built into a rugged instrument that measures only 16" from headstock to tail wheel! The basic UNIMAT includes a powerful 3500 RPM motor and everything you need for fundamental machining operations. Advanced workers, of course, will want many of the accessories that make UNIMAT the most practical, all-purpose tool available anywhere in the world! Whether you're a perfectionist or putterer, you'll really enjoy working with UNIMAT. Available at better hardware stores and hobby shops, or WRITE FOR FREE CATALOG AND BUDGET PLAN INFORMATION.

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2" to 14" blades, 4 bit sizes. Available with shockproof plastic covered tubing.

Ask For It At Your Dealer

KEDMAN CO., 233 S. 5th W., Salt Lake City, Ut.

but there are means to dim the din, luck[illegible] A quieter world would not only be pl[illegible] anter—we might all live in it longer. •

Remember This One?

[*Continued from page* 93]

run. It froze, screaming like a bansh[illegible] and the fastest I could get this car to [illegible] under the circumstances was 111 mph; [illegible] ended up in third slot behind the winni[illegible] car's 116 mph. Later, with a new gen[illegible] ator bearing and plenty of lubrication, [illegible] Big Link did 121 mph with MI Editor [illegible] Parker as passenger. On another occas[illegible] with five people plus Joe, my Labrad[illegible] aboard, it was officially clocked at 117 m[illegible] I realize this isn't very fast by today[illegible] standards. But back in '53 it was t[illegible] drawer lightning and the engine would [illegible] considered smallish today by any of t[illegible] Big Three.

However, there came a time when I h[illegible] to sell the Link, which may have been o[illegible] of the greatest mistakes I ever made. T[illegible] Harris of Ormond Beach, Fla., bought t[illegible] car in '55 when it had 48,000 miles on [illegible] Every year since then he has brought [illegible] back for me to drive. This year I tried [illegible] out on the new Daytona Internatio[illegible] Speedway. The car had traveled, at th[illegible] time, 139,000 miles. The engine had ne[illegible] been touched and still ran as quietly [illegible] stroking a cat's back. Also, Mr. Har[illegible] reported, it hadn't burned a pint of oil b[illegible] tween changes at 3,000-mile intervals. T[illegible] leather upholstery is still in new conditi[illegible] and even the original paint refuses to sho[illegible] any age. The car can still top 110 m[illegible] with ease, still do 0-60 mph in ten secon[illegible] flat, and the suspension still feels as so[illegible] as a rock.

This was our MI Car Of The Year ba[illegible] in 1953. In spite of the six years that ha[illegible] passed, performance-wise it's still a b[illegible] luva going automobile. What probab[illegible] impressed me most of all—the body s[illegible] hasn't a single rattle or squeak in it. [illegible] statement very few '59 cars with more th[illegible] ten miles on them can make. The old L[illegible] proves once and for all what we've be[illegible] saying on these pages for many years [illegible] Detroit can really build them when [illegible] wants to.

—*Tom McCa*[illegible]

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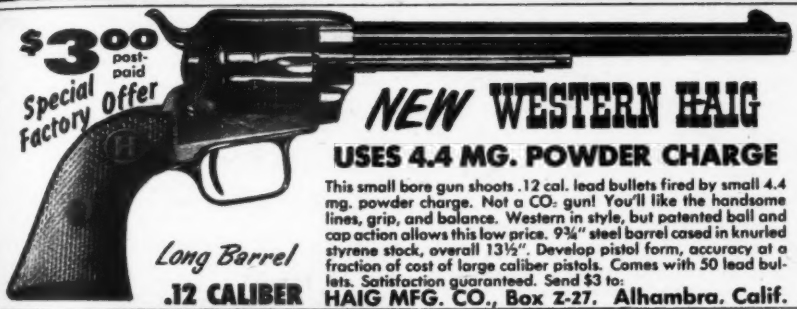

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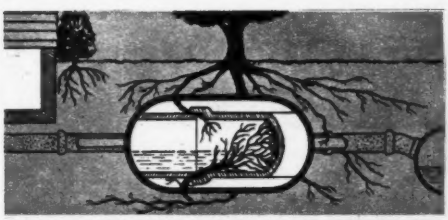

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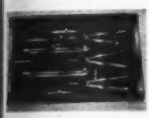

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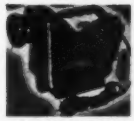

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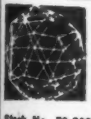

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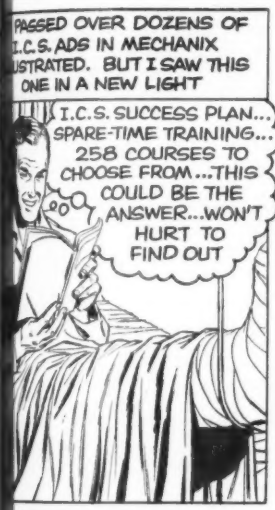

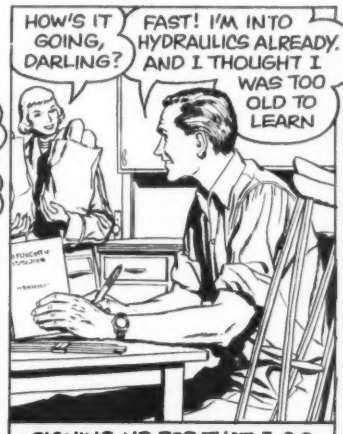

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- ☐ Reading Struc. Blueprints
- ☐ Sanitary Engineer
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DRAFTING
- ☐ Aircraft Drafting
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ELECTRICAL
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- ☐ Elec. Light and Power
- ☐ Practical Lineman
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- ☐ High School Diploma
- ☐ Good English
- ☐ High School Mathematics
- ☐ High School Science
- ☐ Short Story Writing

LEADERSHIP
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- ☐ Supervision

MECHANICAL and SHOP
- ☐ Diesel Engines
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- ☐ Industrial Instrumentation
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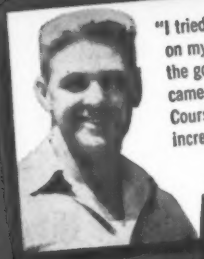

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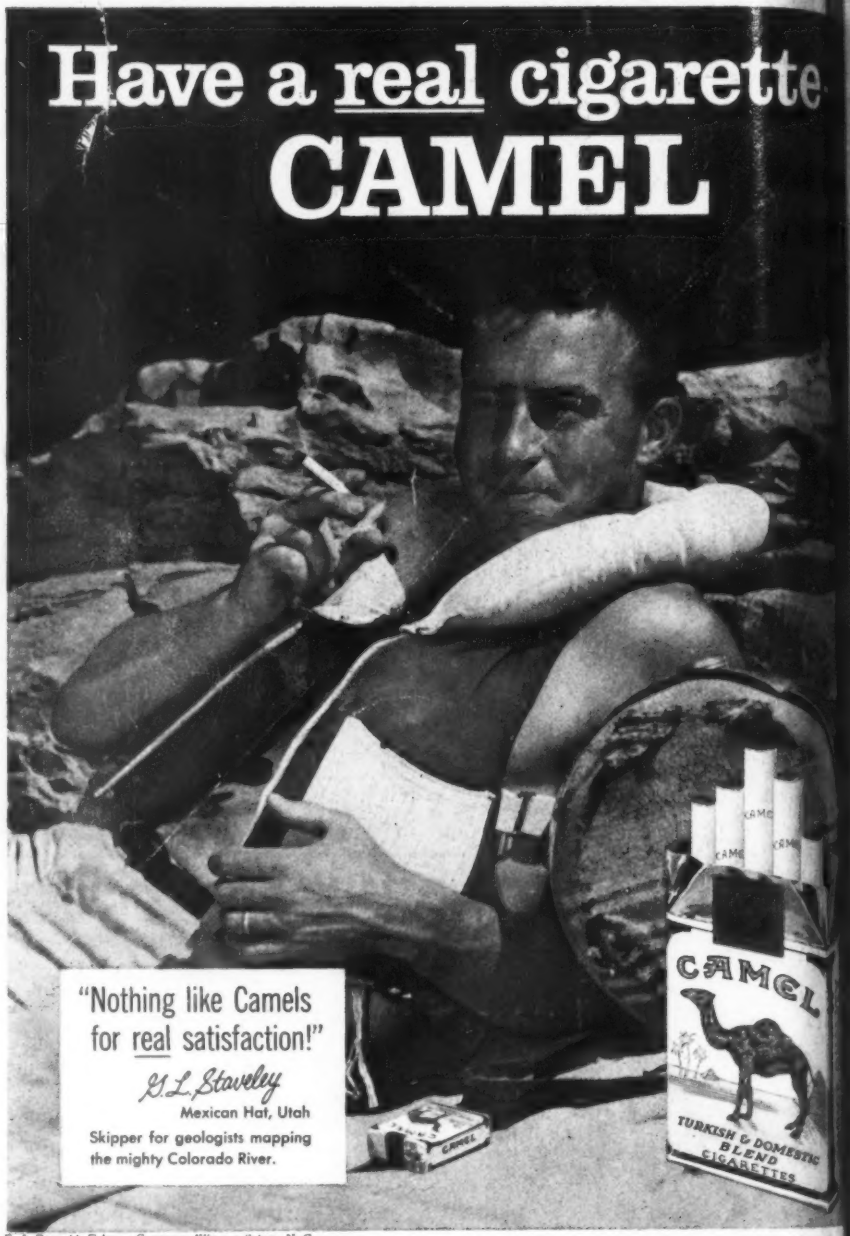

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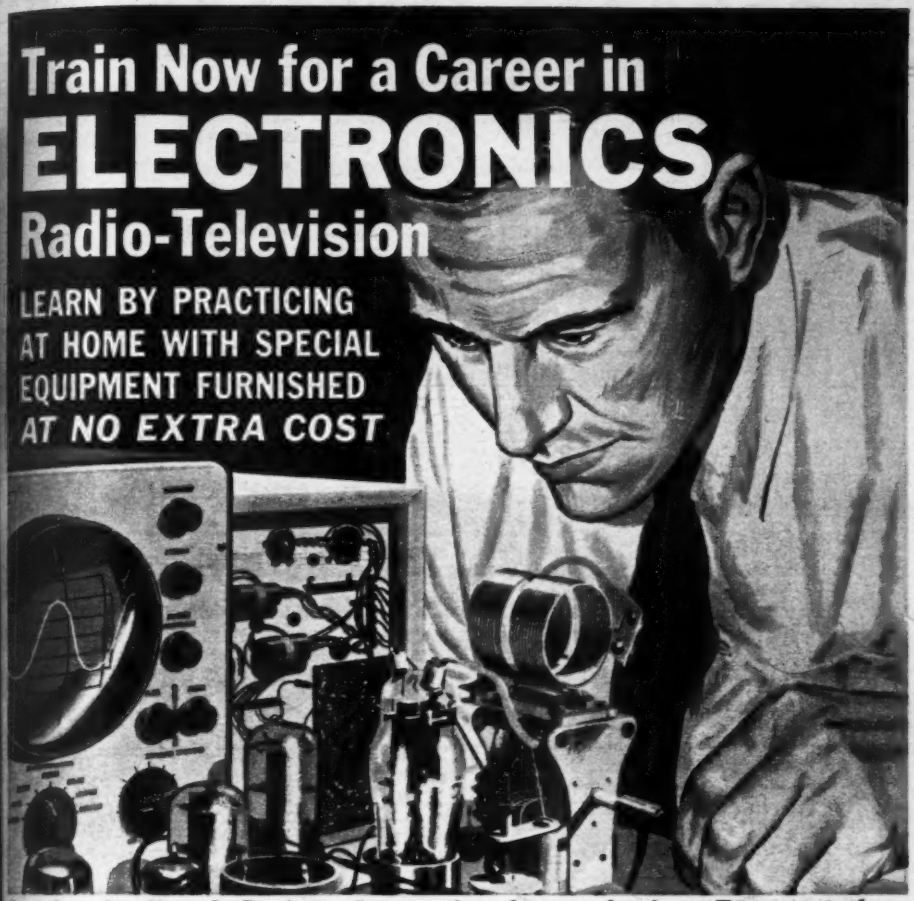

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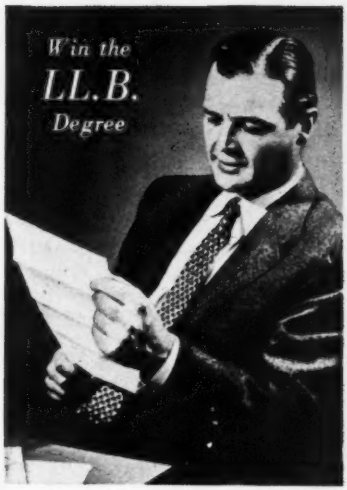
CASE #2 **Doe said to Crane, "I will sell you 100 shares of XY stock at $50." Crane said, "I'll give you $45." Doe, knowing the market was unsettled, said nothing, but an hour later tendered 100 shares and a bill for $4,500. May he hold Crane?**

ANSWER: No. Crane's counter-offer was a rejection of Doe's offer.



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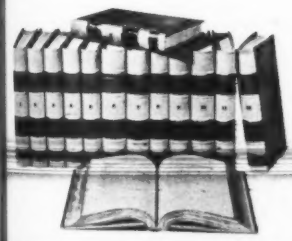

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I was astonished at the memory I had acquired and spent the rest of my journey on more and more difficult experiments in memory, and reflecting how this new control I was achieving over my mind would materially help me to a greater success in life. After this, I worked hard at this wonderful memory system, and within a week I found I could recall passages from books and quote them with ease; names, addresses and business appointments were remembered immediately; and in four months I had succeeded in learning Spanish.

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I can only suppose that others wish to acquire what is, after all, the most valuable asset towards success in life.

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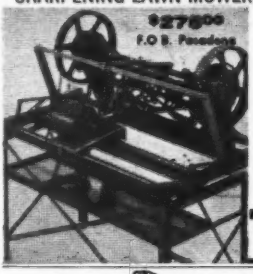

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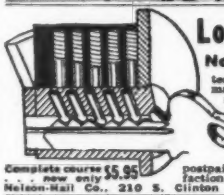

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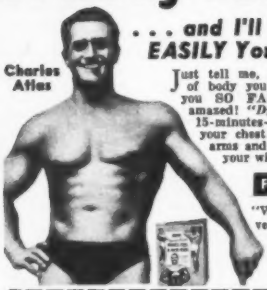

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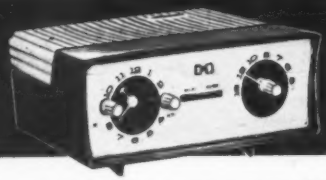

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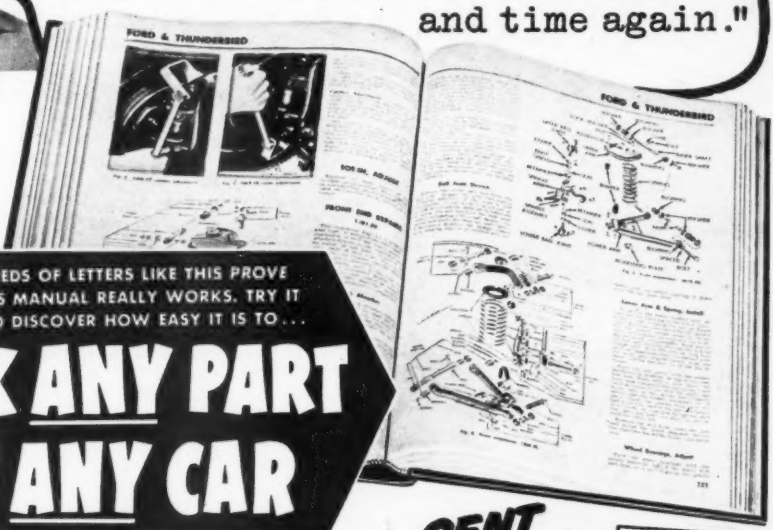

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● *Latest Figures*

Could you tell me how many people there are in Tibet?

Jody Rivais
Columbus, Ga.

One million, not counting Abominable Snowmen, Red Chinese or food-plan salesmen.

● *Ice Yachting Clubs*

After reading the how-to-build article about Frostfish, by Cal Smith, in the Nov. MI, and Faster Than The Wind, by Laurence M. Whyte, in the Jan. MI, many readers became interested in joining ice yachting clubs. So here are some addresses:

Mr. John Childs, Sec'y., Eastern Ice Yachting Assn., 527 Main St., New Rochelle, N. Y.

Mr. James Robinson, Sec'y., Northwestern Ice Yachting Assn., Box 159, RFD 1, Richland, Mich.

International Skeeter Assn., 2255 Sherman Ave., Madison 4, Wis.

Mr. Ralph Templin, Sec'y., DN-60 Class, 21207 Redmond, East Detroit, Mich.

Mr. Frank Hansa, Sec'y., Yankee Ice Yacht Assn., 33 W. 42nd St., New York 36, N. Y.

● *Fipples For Brazil*

On page 98 of your MI of June, 1957 we found an article on the English-made woodwind recorder, the fipple. We wrote to the Dolmetsch Company for information on making them ourselves but they weren't interested. Why should we think of making them when they can be bought? Well, the sad answer is terrific duties on imports and months waiting for things. The best way to get anything is to have someone bring it with him. So we would like to contact someone traveling from England or the U.S.A. to Brazil, or someone with information on making fipples, recorders or any other unusual instruments.

L. C. Boddy
Missionary
Caixa Postale 365
Joinville, Santa Catarina
Brazil

It seems too bad that anybody who wants to make a fipple or play a fipple shouldn't get to do it. Any fipplists here or in Blighty care to contact these jungle cats?

● *Here's Your Worm Caller*

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Dennis L. Radke
Oregon City, Ore.

Reader Radke is kindly answering a letter in the March '59 MI asking for an electric worm digger with a portable power source.

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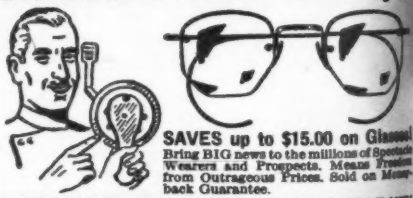

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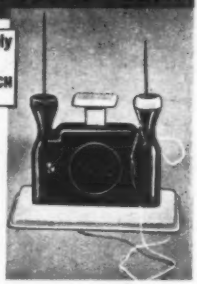

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I'd like to give this to my fellow men...

while I am still able to help!

I was young once, as you may be—today I am older. Not too old to enjoy the fruits of my work, but older in the sense of being wiser. And once I was poor, desperately poor. Today almost any man can stretch his income to make ends meet. Today, there are few who hunger for bread and shelter. But in my youth I knew the pinch of poverty; the emptiness of hunger; the cold stare of the creditor who would not take excuses for money. Today, all that is past. And behind my city house, my summer home, my Cadillacs, my Winter-long vacations and my sense of independence—behind all the wealth of cash and deep inner satisfaction that I enjoy—there is one simple secret. It is this secret that I would like to impart to you. If you are satisfied with a humdrum life of service to another master, turn this page now—read no more. If you are interested in a fuller life, free from bosses, free from worries, free from fears, read further. This message may be meant for you.

By Victor B. Mason

I am printing my message in a magazine. It may come to the attention of thousands of eyes. But of all those thousands, only a few will have the vision to understand. Many may read; but of a thousand only you may have the intuition, the sensitivity, to understand that what I am writing may be intended for you—may be the tide that shapes your destiny, which, taken at the crest, carries you to levels of independence beyond the dreams of avarice.

Don't misunderstand me. There is no mysticism in this. I am not speaking of occult things; of innumerable laws of nature that will sweep you to success without effort on your part. That sort of talk is *rubbish!* And anyone who tries to tell you that you can *think* your way to riches without effort is a false friend. I am too much of a realist for that. And I hope you are.

I hope you are the kind of man—if you have read this far—who knows that anything worthwhile has to be *earned!* I hope you have learned that there is no reward without effort. If you have learned this, then you may be ready to take the next step in the development of your karma—you may be ready to learn and use the secret I have to impart.

I Have All The Money I Need

In my own life I have gone beyond the need of money. I have it. I have gone beyond the need of gain. I have two businesses that pay me an income well above any amount I have need for. And, in addition, I have the satisfaction—the deep satisfaction—of knowing that I have put more than three hundred other men in businesses of their own. Since I have no need for money, the greatest satisfaction I get from life, is sharing my secret of personal independence with others—seeing them achieve the same heights of happiness that have come into my own life.

Please don't misunderstand this statement. I am not a philanthropist. I believe that charity is something that no proud man will accept. I have never seen a man who was worth his salt who would accept something for nothing. I have never met a highly successful man whom the world respected who did not sacrifice something to gain his position. And, unless you are willing to make at least half the effort, I'm not interested in giving you a "leg up" to the achievement of your goal. Frankly, I'm going to charge you something for the secret I give you. Not a lot—but enough to make me believe that you are a little above the fellows who merely "wish" for success and are not willing to sacrifice something to get it.

A Fascinating and Peculiar Business

I have a business that is peculiar—one of my businesses. The unusual thing about it is that it is needed in every little community throughout this country. But it is a business that will never be invaded by the "big fellows". It has to be handled on a local basis. No giant octopus can ever gobble up the whole thing. No big combine is ever going to destroy it. It is essentially a "one man" business that can be operated without outside help. It is a business that is good summer and winter. It is a business that is growing each year. And, it is a business that can be started on an investment so small that it is within the reach of anyone who has a television set. But it has nothing to do with television.

This business has another peculiarity. It can be started at home in spare time. No risk to present job. No risk to present income. And no need to let anyone else know you are "on your own". It can be run as a spare time business for extra money. Or, as it grows to the point where it is paying more than your present salary, it can be expanded into a full time business—overnight. It can give you a sense of personal independence that will free you forever from the fear of lay-off, loss of job, depressions, or economic reverses.

Are You Mechanically Inclined?

While the operation of this business is partly automatic, it won't run itself. If you are to use it as a stepping stone to independence, you must be able to work with your hands, use such tools as hammer and screw driver, and enjoy getting into a pair of blue jeans and rolling up your sleeves. But two hours a day of manual work will keep your "factory" running 24 hours turning out a product that has a steady and ready sale in every community. A half dollar spent for raw materials can bring you six dollars in cash—six times a day.

In this message I'm not going to try to tell you the entire story. There is not enough space on this page. And, I am not going to ask you to spend a penny now to learn the secret. I'll send you all the information, free. If you are interested in becoming independent, in becoming your own boss, in knowing the sweet fruits of success as I know them, send me your name. That's all. Just your name. I won't ask you for a penny. I'll send you all the information about one of the most fascinating businesses you can imagine. With these facts, you will make your own investigation. You will check up on conditions in your neighborhood. You will weigh and analyze the whole proposition. Then, and then only, if you decide to take the next step, I'll allow you to invest $15.00. And even then, if you decide that your fifteen dollars has been badly invested I'll return it to you. Don't hesitate to send your name. I have no salesmen. I will merely write you a long letter and send you complete facts about the business I have found to be so successful. After that, you make the decisions.

Does Happiness Hang on Your Decision?

Don't put this off. It may be a coincidence that you are reading these words right now. Or, it may be a matter that is more deeply connected with your destiny than either of us can say. There is only one thing certain: If you have read this far you are interested in the kind of independence I enjoy. And if that is true, then you must take the next step. No coupon on this advertisement. If you don't think enough of your future happiness and prosperity to write your name on a postcard and mail it to me, forget the whole thing. But if you think there is a destiny that shapes men's lives, send your name now. What I send you may convince you of the truth of this proverb. And what I send you will not cost a penny, now or at any other time.

VICTOR B. MASON
1512 Jarvis Ave., Suite M-4-C
CHICAGO 26, ILLINOIS

Invention Clinic

Joseph H. Kraus

In this column each month Mr. Kraus will answer as many letters as space permits on those subjects he feels to be of widest general interest. Time does not allow him to reply to any letters except those printed here. Address your questions to the Invention Clinic, *Mechanix Illustrated*, 67 West 44 St., New York 36, N. Y.

Multiple Die Cutter

Ralph P. Bagdigian of Reading, Mass., sends copies of his two patents for machinery to cut various sizes of greeting cards and the like from sheets of material. What kind of company would be interested?

There are about 19 companies in the U.S. which make machinery for this purpose. It might be advisable for you to send descriptions of your invention to each of them. Unless you have claims that engineers might consider outstanding, your chances of a sale are not rosy. Remember that they have their own machinery which now is being produced and sold.

Valve System For Gas Engine

Dean Dunlap of Franklin, Neb., says he has designed a valve system for gas engines that is simpler in construction and eliminates the major portion of present valve malfunctions. Is there a market for such a system?

Claims like this have been made many times before. They need to be substantiated, and you must be sure that your system has not been patented by others. Chances for acceptance by a manufacturer are not good unless you have something of revolutionary value. The cost of tooling for a new design and the educating of servicemen is too great.

INVENTOR'S TIP OF THE MONTH

Foods, paints, cosmetics, insect sprays, cleaning solutions, plant chemicals and dozens of other products are now being sold in pressurized containers. Some bright person should invent and market a refillable container to take nearly any pourable material. It could be pressurized with chemical tablets, bottled gas, or a simple mechanical system could be employed.

Telephone Cover

Barbara Pina of Honolulu, Hawaii, has designed a special-purpose cover for telephones. Is this idea worth proceeding with?

Yes, it is, even though many receiver covers have appeared and telephone companies object to them. I believe that if you could introduce your design on the market it would meet with quick acceptance by the people you hope to reach. Start with a patent search; after that, seek a large manufacturer.

Formulas For Weight Control

Grace Zier of Billings, Mont., says she has discovered two formulas which are effective in controlling weight. If she submits these to pharmaceutical companies she may need to relinquish all rights to them. To whom can she turn to learn if they have any market value?

Maybe you could encourage your local college to conduct some tests with overweight mice. Then if the reports establish the safety and effectiveness of your formula, you might be able to negotiate a deal with some firm. It won't be easy.

Toy Cannon

Fred G. Hofmann of Miami Beach, Fla., has developed a toy cannon which fires a mixture of hydrogen and oxygen. Since the basic

[*Continued on page* 21]

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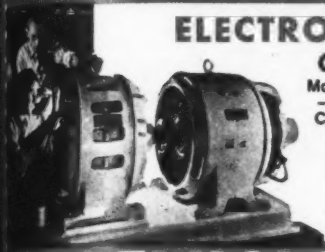

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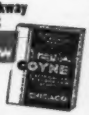

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[*Continued from page* 18]

rinciples used are so well known, would a tent application be worth while?

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Your search report should have included e toy carbide cannon that can be purchased large toy stores and is more closely related your idea. Buy one, examine it and compare it with your design. Then see if you can ake yours for one fifth of the price you paid.

mane Animal Trap

Jomes Stamm of Grand Bahama Island, Fla., s designed and built a trap for catching rds and small animals alive. Should he inert in a patent?

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John Scala of Toronto, Ontario, has nearly completed an automatic cigarette lighter for cars. It takes up to a pack of cigarettes and works from the vacuum of the motor. Is there any point in furthering it?

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Jacob S. Jake of St. Clair Shores, Mich., sends diagrams and description for a centrifugal-bladed impeller to be applied to compressors and forced draft fans. What do I recommend?

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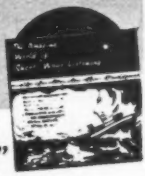

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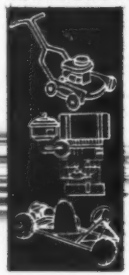

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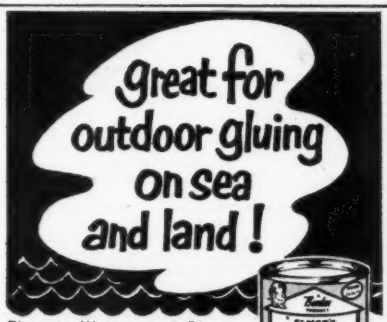

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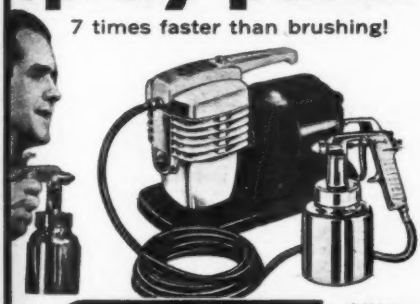

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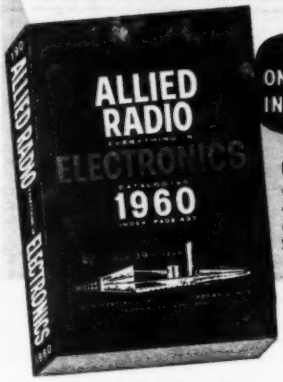

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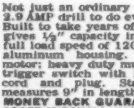

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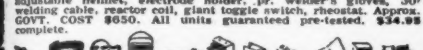

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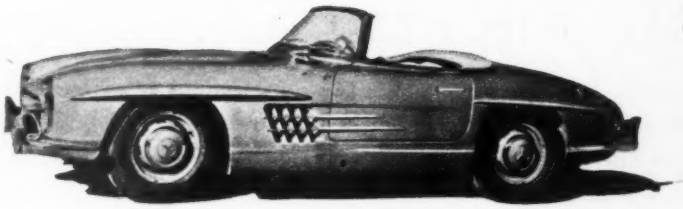

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WHAT A DIFFERENCE TWO CYLINDERS MAKE! THAT'S WHY YOU'LL LOVE THAT LARK V-8

In the field of domestic engines, two more cylinders make the difference between adequate transportation and spirited performance ➤ And sometimes performance is fun, particularly when the price is just a little more than the "6" ➤ The Lark V-8 in standard form pulls 180 hp at 4500 rpm and 260 ft. lb. of torque at 2800 rpm. With optional 4-barrel carburetor and dual exhausts, you get 195 hp at 4500 and 265 ft. lb. at 3000 so that drivers can turn zero to sixty in just over nine seconds ➤ Economical, too! In last year's Mobilgas Run, The Lark V-8 with automatic transmission topped all other eights ➤ The Lark V-8 is rugged. It runs on five massive main bearings and (here's the hooker), piston travel per mile in high gear (3.31 rear) is only 1380 feet. Engine revs per mile in high gear is an easy 2550 ➤ See your Studebaker Dealer and try The Lark V-8. You'll love it!

LOVE THAT **LARK** *BY STUDEBAKER*

MAIL FOR McCAHILL

UNCLE TOM ANSWERS HIS MOST INTERESTING LETTERS IN THIS COLUMN. WRITE TO HIM IN *MECHANIX ILLUSTRATED*, 67 WEST 44TH ST., NEW YORK 36, N. Y.

● *Tom, last night we saw the Corvair and drove the Falcon. We're really interested in a new small car but Detroit is up to its old tricks again. By the time you total up the price tag, it's not $2,000 but between $2,400 and $2,500. I say the small American cars will never compete with the little foreign cars unless they come down in price as well as size.*

Herb Polesie
Santa Monica, Calif.

Last summer when I tried to beat the right answers out of the boys as to what the price tags would be on the small cars after production started, I was assured by both Chevrolet and Ford men that their Corvairs and Falcons would sell for a "hair under $2,000 delivered in New York." When these price tags start inching close to the $2,500 mark it means absolutely no competition whatsoever for cars such as the Volkswagen and Dauphine, which can be bought for roughly $800 less. Some rumors have reached me that dealers are padding the prices in order to keep their bread-and-butter cars (the bigger jobs) from looking overpriced. Anyway, I'm happy I wrote on these pages that at $2,000 or under, the three new compact cars would prove as popular as Marilyn Monroe at a Sing-Sing picnic—but if they allowed the cars to cost much more, their comparative value would become highly questionable.

● *Could you tell me where the famous old Simplex automobile was manufactured?*

George Koch
Baltimore, Md.

New Brunswick, N. J.

● *Since my knowledge of things mechanical stops after I've plugged in the toaster, I'm not the most likely person to be writing to you but I am an avid reader of yours. Now I have a question I'd appreciate some help on. Recently my husband purchased a 1959 Citroen sedan for me. I have gone through all the back issues of MI but my back-tracking has been useless. Could you tell me when you wrote something on the Citroen?*

Mrs. Amos J. Rogers
Chinchilla, Pa.

We tested the Citroen in Europe for MI back in Sept. '52 but haven't tested one since. Incidentally, you didn't mention what model you own.

● *Sixty years of progress in the automobile business has finally gotten us to the point where the jacks supplied with the cars are practically impossible for anyone to use. Some of the bumper jacks today are a disgrace. I had a flat on my station wagon the other night and just couldn't get the rear off the ground. The stringbean-like jack simply bent like a fresh spring willow. What can we do?*

J. T. Harley
San Francisco, Calif.

Jacks have been getting sleazier and sleazier with all American automobiles. The last good jack I had was on my '53 Lincoln. Wish I'd kept it.

● *I don't know what you know about bikes, but I promised Junior I'd buy him the best bike in the world if he got all A's in Junior High—and it looks like he's going to do it. Since I've been reading your car stuff for years I'd like to ask you what is the world's best bike?*

Harry Fabian
Memphis, Tenn.

My own bike is a Schwinn Paramount and I believe it to be the best-made bike in the world. It's going to cost you a bundle though, Pop—none of that $40 bargain basement stuff. It'll kick hell out of two C-notes but it's worth every dime if you like truly fine machinery.

[*Continued on page* 48]

Sworn statement from CHAS. LEMMING reads:

"After starting my own business

I've averaged $100 A DAY —most of it clear profit!"

• *If you want to be independent—free from layoffs, bosses—start profitable, year 'round business of your own.* **Ours is NOT a lease proposition.** *You own the machine, you work when and where you please, and all the money you take in is your own.* **FREE** *book tells you how.*

MAIL COUPON TODAY FOR FREE BOOK

VON SCHRADER MFG. CO.
312 "D" Pl., Racine, Wisconsin

Without obligation rush your **FREE** booklet about how I can start my own permanent, profitable electric Upholstery Cleaning business.

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Not everyone does as well... Mr. Lemming owns two machines

In city of less than 50,000, Mr. Lemming started his own business after filling in coupon like one below. He averaged $100 a day during first year, some days $200. F. E. Doran grossed $1050 in single month. Geo. Held grossed $300 in one week.

How much you earn depends largely on you. No special skill, no large investment required for our electric upholstery cleaning machine. Start spare time until full time justified. Hire helpers as needed.

NO SHOP NECESSARY • You clean upholstered furniture on customers' premises—homes, hotels, motels, etc. Auto upholstering, too. No hauling; operate from your home. Watch business grow as satisfied customers tell friends. Supplies cost little, profits high.

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Service Oxfords
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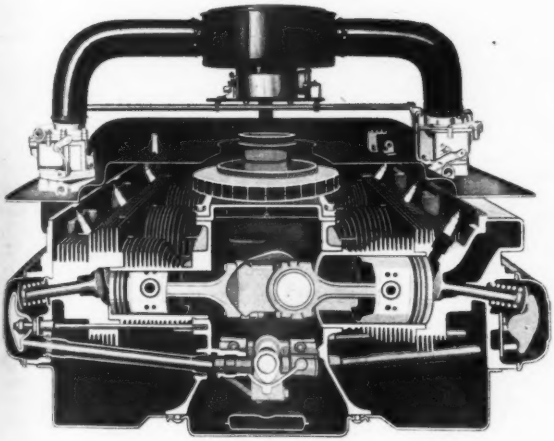
Safety Shoes

CORVAIR'S A NEW SMOOTHIE

Behind Corvair's array of engineering innovations (*literally behind*) lies its engine: America's first and only rear-mounted air-cooled aluminum "pancake" six. The spec sheet reads like this: 140 cubic inches of displacement, bore 3.375 inches, stroke 2.60 inches, maximum horsepower 80 @ 4400 r.p.m., maximum torque 125 ft.-lb. @ 2400 r.p.m. (Hitch these figures to a car weighing only 2,375 pounds at the curb and you've got yourself a peppery package, if we do say so.)

Anyway, of the four adjectives, we particularly like "pancake." Translated, it means that this is a horizontally opposed six, instead of the conventional in-line type. If you cut the engine crosswise, it would look like the picture.

There are three pairs of cylinders, of course, each working in unison. When one piston is at the top of its stroke, so is its mate. So? Well, Barney Navarro, who's engineering editor of Motor Life magazine and should know about these things, writes "opposed engines (of Corvair's design) are inherently balanced." In other words, each pair of pistons, rods and crank throws balance each other, and there's no need for counterweights. Because this type of engine is inherently balanced, it's inherently smoother than an in-line six. And after all, ultra-smoothness is just what you're after.



As you might suspect, there's precious little of the commonplace in a Corvair engine. Yet there's nothing so radical that it hasn't been proved time and again for reliability. About the only question left now is whether we can build enough of these cuties to fill the demand. One thing you ought to do for sure is to try one out. After that, you'll probably be badgering us to build *you* one. This is a problem we're happy to have. . . . Chevrolet Division of General Motors, Detroit 2, Michigan.

That rear engine is just one of the engineering marvels in this new Corvair. Others include the silken smoothness of independent suspension at all 4 wheels . . . a practically flat floor, front and rear . . . briskly competent handling . . . and the ingenious unit combining the engine, transmission and rear axles. Be prepared to spend some time with these wonders when you check out the revolutionary Corvair at your dealer's.

corvair
BY CHEVROLET

Advertisement

Tom McCahill Reports on:

Facts about Replacement Mufflers

Today's automotive tastes have caused very complex designs and, in some cases, some weird engineering. Underslung styling and high compression engines, plus dozens of power-assist gadgets, have become pretty common. However, this has created new problems in maintenance. Let's consider mufflers, for instance.

Typical current hopped-up Detroit gargantuas demand a different type of food than old-time cars. They take to 100-plus octane gas like a cokie to a needle, and they pump out acid-loaded fumes into the muffler system that could eat a hole through it like a rat through cheese. This calls for better-designed mufflers. They must be built to nestle into the maze beneath today's underslung wagons. These problems are doubled when cars are equipped with dual exhaust systems, and all this results in shorter muffler life. Mufflers are the most common replacement item on all modern automobiles. The big question is: What are the muffler kids doing to increase muffler life? The answer is, there are only three things they can do. First, use heavier, thicker steel. Second, design the interior so as to reduce acid-loaded condensation and to avoid hotspots. Third, coat mufflers with corrosive-resistant materials. AP mufflers stand out on all three counts like a well-filled Bikini at a Vermont swimming pool. APs have more and heavier internal parts, up to two-thirds heavier outer shells, up to one-third heavier heads than other mufflers. AP's exclusive Dri-Flow design eliminates cold spots—cuts way down on corrosive condensation. And AP offers more models with rust-resistant coating than any other manufacturer. Yet AP mufflers sell for the same price as the inferior gas traps.

These are among the reasons why AP is the world's largest manufacturer of replacement mufflers. Look for the big red and white AP "Free Muffler Check" sign the next time you need a replacement muffler. More than 100,000 automotive experts from coast to coast install AP mufflers and tail pipes.

THE AP PARTS CORPORATION

18-P AP BUILDING, TOLEDO 1, OHIO

Mail For McCahill

[*Continued from page* 45]

● *Considering your weight, shouldn't you be taller?*

R. B. Arnold
Darien, Conn.

Yeah, about 26 feet.

● *Am considering buying a Judson blower for my 1959 VW which has 8,000 miles on it. I can't take all the Judson sales pitch nor the VW dealer's arguments against. It really takes an independent expert opinion these days to arrive at a decision. May I have yours, please?*

John A. Thoroughman
Chicago, Ill.

I just don't happen to like blowers on a car to be used every day. It's like hitting your arm with a coke needle to wake you up quick.

● *I bought a Labrador Retriever like yours last summer and would like to get somebody to train him so he'll make a good gun dog. How long will this take? Can you recommend a trainer?*

Harold F. Churchill
Pittsburgh, Pa.

To be trained as just "a good gun dog" might only take three or four months, if the dog is bright. If he's stupid, he may never make it. To be trained as a field trial dog will usually require at least two years. However, good trainers will ship him back to you quickly if they feel the dog hasn't got it. Two trainers I can recommend are Bud Hedges of Sag Harbor, Long Island, N. Y., or Orin Benson of Eagle, Wis.

● *Recently I bought an MG TD and it's fine in every respect except that the engine is just worn out? Any suggestions?*

Paul Waters
Buffalo, N. Y.

Sears, Roebuck lists '50-54 TD engines in their catalog. Price: About $250.

● *Would you accept the Democratic nomination in 1960 for president?*

A. G. Tulley
Oklahoma City, Okla.

President of *what?* The last nomination I accepted got me into a sorority.

● *Bet you can't top this. My husband and I have a new outboard cruiser and one day we went shopping for some equipment. He bought one of those life rafts that inflate immediately by pulling a little pin. We put it on the back seat of our VW alongside our little son Jerry, age six. Just as we got into some*

[*Continued on page* 50]

"The 1960 Plymouth is the performance king in its field . . .

it can drill through hard bends and switchbacks as adroitly as many top-rated sports cars,"

SAYS TOM McCAHILL of MECHANIX ILLUSTRATED.

One of America's best known automotive experts goes "flat out" in his praise for the Solid '60 Plymouth. Tom McCahill took a Fury 4-door hardtop equipped with the 361-cubic-inch, optional Golden Commando V-8 engine, and really put her through her paces.

According to "Uncle Tom," the Commando power plant ". . . can whizz out 0-60 mph in 8.2 seconds."

As this famous auto expert discovered, "The big payoff on a Plymouth comes when you put it on the road." But don't take his or anybody's word for it—*you* put a Plymouth on the road. Get her out on the roughest, toughest terrain you know. See if you share Tom McCahill's and our belief that the Solid Plymouth 1960 with new Dura-Quiet Unibody ". . . is the performance king in its field."

A Chrysler-engineered product, built a new solid way to give you solid satisfaction.

SOLID PLYMOUTH 1960

James G. Groendyk of Upper Saddle River, N. J., checks the mighty engine of his 1931 Duesenberg Convertible Roadster

"Quaker State protects the engine of my classic Duesenberg *and my new car too!*" This Duesenberg Model J boasted the most powerful engine of its day. Its huge 420 cu. in. straight 8 was rated at 265 h.p., and it was guaranteed to give 92 miles per hour—*in second gear*. Its condition today—better than new! Smart motorists rely on Quaker State Motor Oil. Refined only from 100% Pure Pennsylvania Grade Crude Oil, the world's finest, Quaker State assures complete, long-lasting protection.

Available most everywhere . . . always ask for Quaker State by name.

QUAKER STATE OIL REFINING CORP., OIL CITY, PA.
Member Pennsylvania Grade Crude Oil Association

Mail For McCahill

[*Continued from page 48*]

heavy traffic there was a large swoosh! and this balloon-like boat started filling up the entire car. We were forced to jam on the brakes right in the middle of the Freeway and jump out. Jerry was almost smothered. The cops arrived soon and one of the officers slashed the boat with a penknife, allowing it to deflate. We just missed getting a ticket, to boot.

Mrs. Henry Orr
Los Angeles, Calif.

That's pretty hard to top. The only thing I know that comes close happened to a pal of mine who owns a fireworks company. They were putting on a fancy display for a yacht club and one of his helpers phoned him at the office that he'd forgotten some of the equipment. My pal jammed a whole supply of pinwheels, aerial bombs, rockets, Roman candles, etc., in the back seat of his car and started off for the club, some 50 miles away. After a few miles he elected to toss a cigarette out the window—and didn't quite make it. Before you could count to One he was off the road and just managed to escape with his life as a private display of fireworks started on the parkway apron. All the windows and windshield were blown out and the upholstery was left non-existent. A passing patrol car equipped with a fire extinguisher is the only thing that prevented the complete ruin of his Oldsmobile. The only satisfaction he got out of this was that now he knows why they call it a Rocket 88.

● *In our science class we are holding a debate on the question of whether or not it is morally justifiable to conduct scientific experiments on living animals. Would you please give me your opinion on this subject?*

James A. Taft
Endwell, N. Y.

I happen to be strongly against vivisection—especially with dogs—as the animals are given no choice. What they do with humans is okay with me.

● *As an ardent reader of your hog-wash and as a true friend, I wish to warn you that some of your testing procedures are dangerous. You told of turning the Ford Falcon on a progressively faster and tighter circle. A friend of mine tried this once and he got going so fast and in such a tight circle that he finally drove right up his own exhaust pipe and disappeared. Hasn't been seen since.*

Carter W. Christensen
Los Angeles, Calif.

[*Continued on page 52*]

PONTIAC'S TEMPEST ENGINES ARE FULL-HOUSE

tiac for nineteen-sixty is a mighty full kage for those with a highly trained sense r appreciation.

Lovers of true road machinery have been ing a field day admiring the great new pest power plants. Ranging from the nomy 215 horsepower model to the full-e 318 horsepower version, they're the t respected V-8's ever tucked under a enger car hood. Gear boxes to match. e ratios to suit.

nd listen. The noise boys have dampered sound down to where you'll swear they've insulated the *road*. Suspension improvements have also helped in this department . . . as well as in ride and handling.

These are the kinds of advances you expect from the team that created Wide-Track Wheel Design—greatest cure for "car-sickness" in an American passenger car. 'Nuff said? Go see! You'll learn in a quarter mile why people who know cars *best* respect Pontiac *most*.

PONTIAC MOTOR DIVISION • GENERAL MOTORS CORPORATION

PONTIAC THE ONLY CAR WITH WIDE-TRACK WHEELS

[Continued from page 50]

How do you think I lost my hair? Those pipes have sharp edges.

● *Here's one for the How-Cum Department. After seeing at Daytona that the T-birds have nearly replaced the common Fords, I couldn't help wondering how come Corvettes (in competition) can't come in for the Chevies? Surely there are enough in production to be a stock car and surely they can outperform the standard sedans. What, please, is the ruling on this?*

Eddie C. Hardman
U. S. N. S. Bermuda

The Corvette is rated as a "two-seater sports car" and the current four-passenger Thunderbird pases all the qualifications for a sedan rating.

● *As an avid hunter I'd like to know: What's the biggest thing you ever shot?*

E. T. Farmer
Louisville, Ky.

Eighteen hundred bucks at the races.

● *Is there any V8 made in America today that could be run flat-out (meaning foot flat to the floor) for a full 100 miles with[illegible] causing any serious damage? Or would a[illegible] them do it? I mean a car in absolute st[illegible] showroom condition but well broken-in [illegible] three or four thousand miles on it.*

Jack L. Water[illegible]
Seattle, Wash.

No high-performance car made in Amer[illegible] could run as much as 20 miles in absolut[illegible] stock condition really flat-out. Assuming [illegible] the carburetor butterflies were fully open [illegible] nasty things would start to happen faster t[illegible] I could get a haircut. One of the first th[illegible] that would go would be the mufflers, wh[illegible] would burn off like *papier mache*. Then [illegible] engine would blow, because the stock c[illegible] buretor jets that come with all American c[illegible] are too small for continued flat-out runni[illegible] the mixture would be so lean that the eng[illegible] would fry to a cinder.

Recently, when Fireball Roberts set [illegible] fastest stock car qualifying time on the [illegible] Daytona Beach International Speedway at [illegible] mph, he "breathed" his engine twice in e[illegible] of the major curves for 150 or more ya[illegible] Breathing an engine means to take your f[illegible]

[Continued on page 54]

BRONSON

America's Lowest Priced Spin Casting Reel!

DART 905—America's fastest selling reel with no line twist and factory pre-set drag . . . yet it's adjustable. All metal gears. Anti-reverse crank. In black and gold. Comes with 10 lb. test monofilament line. 7 oz. Only one of 25 Bronson quality reels. Sold everywhere..... $5.95

Write for FREE "FISHING HANDBOOK"

BRONSON REEL COMPANY
BRONSON, MICHIGAN
Division of Higbie Mfg. Co.

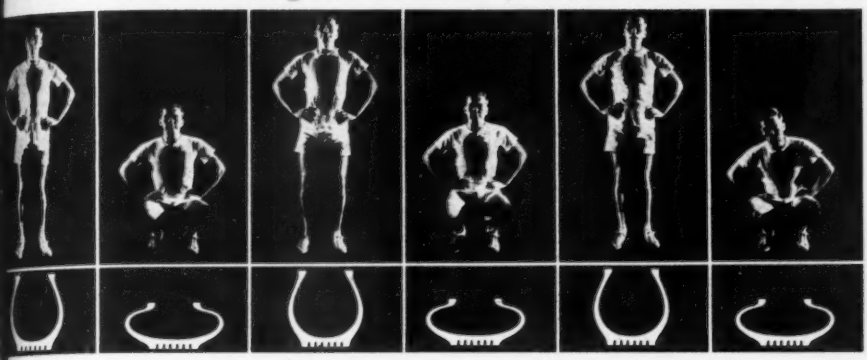
WORLD'S MOST EXCITING . . . LOWEST PRICED CAR

New KING MIDGET

15 Years continuous production—Thousands of proud, satisfied owners from Alaska to Equador. Many report 50 to 75 miles per gallon. Rear mounted air-cooled engine, smooth fully automatic transmission, four wheel hydraulic brakes. A safe and amazing small car you can own and drive at a fraction of the cost of any other. You owe it to yourself to get the surprising facts and prices. Buy it at the dealer price if no dealer near you. Rider Agents wanted. Send 25c for 32 page book, full details, dealers price, or $1 (refunded first order) for this plus Service and Repair Manual and 16 5x7 photos of car and factory.

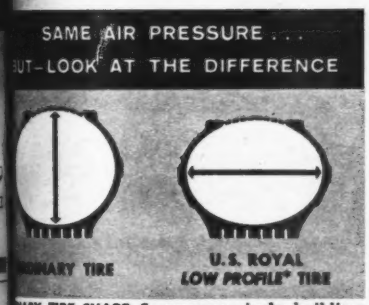
MIDGET MOTORS CORPORATION • ATHENS 3, OHIO

Too much flexing wears out people and tires...



The new *Low Profile* tire shape flexes less, reduces heat build-up, increases mileage!

THE TIRE THAT DOESN'T GET TIRED



ORDINARY TIRE SHAPE flexes excessively building intense heat that murders tires, pushes the temperature of ordinary tire above the crucial 97. danger zone. "LOW PROFILE" TIRE SHAPE runs temperatures well below danger zone. Run-hours at top highway speeds, U.S. Royal "Low Profile" tires stay cooler, keep you far safer.

PIONEERED BY U.S. RUBBER AS THE ANSWER TO GREATER TIRE SAFETY

Takes regular air pressure . . . yet it's lower and wider to keep you safe at top highway speeds

Excessive flexing heats up a tire just the way it heats up *you!* And at today's highway speeds the torturing heat build-up wears out ordinary tires fast, increases blowout risk.

New U.S. Royal "Low Profile" tires were designed specifically to overcome this hazard. Though they take the same air pressure as ordinary tires, they're lower and wider to flex less, run cooler, wear better.

No need to risk tire failure. "Low Profile" tires cost no more than ordinary tires. See the *complete* line in 5 popular price ranges for every model car at your U.S. Royal Dealer.

U.S. ROYAL *LOW PROFILE** TIRES

United States Rubber
Rockefeller Center, New York 20, N.Y.

"Low Profile" is U.S. Rubber Company's trademark for its lower, wider shape tire.

[Continued from page 52]

off the gas for a couple of seconds. This does two things: raw gas is sucked into the cylinders, which cools the tops of the pistons and head. This same shut-off also causes an extreme internal vacuum which will actually suck oil up past the piston rings to give the engine an extra heavy dose of lubrication to prevent it from seizing. If Roberts hadn't breathed his engine there was an excellent chance he'd have blown it on one lap.

Under NASCAR rules Roberts was allowed to use larger jets than normal in his carburetor and run without mufflers. Despite this, he was forced to breathe his engine. This does not, however, apply to all engines—only the high-performance jobs. Some smaller engines are safe to run flat out for many miles, as their carburetor size is so small it's like running at three-quarter throttle even when wide open. Add to this the fact that they commonly have mild anti-high-rpm cams and a restricted ignition advance (which won't permit over-revving) and you have a lot of built-in safety factors. One of the secrets of the VW's longevity is the fact that it's so detuned in design that it's almost impossible to abuse it. This is true with a number of o low-performance engines. The hot though, can kill themselves with the aid heavy foot applied too long.

● *Have been hearing and reading about "economy tests" and also about the one you made. What I want to k is: Are all economy tests on the up and or not?*

Fred R. Be
Norfolk, Va.

I have no way of knowing whether economy tests are "on the up and up" I believe they are, with maybe just a s twist of misrepresentation in some ca know about. In other words, if some claims it went from Brooklyn to Boston a aging so many miles and tenths per ga the chances are it did. But *how* this achieved might be just cause for the forfei of their cricket bat.

For example, in one widely-publicized a year or so ago, the car actually made claimed mileage (the run was thoroug

[Continued on page 56]

SAVE UP TO 1/2 ON FINE ITALIAN

CHORD ORGANS

Buy Direct-From-Importer... GET BIG DISCOUNTS

PLAY ON SIGHT! NO LESSONS NEEDED!

Here's the new musical instrument sensation that's suddenly captured the entire country! You and the children can play old and new songs in just a matter of minutes! . . . thanks to the famous DA-MAR System, included FREE! Makes music fun right from the start. Brings the whole family closer together as everyone joins in playing everything from hit tunes to lovely hymns. Best of all . . . you actually save ½ off mfr's list prices . . . buying direct from the importer. Pay only a small amount down . . . the rest just pennies a day!

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Most domestic-made Electric Chord Organs use inferior plastic reeds . . . but every Philharmonic reed is made of finest, carefully treated Swedish Stainless Steel for superbly richer tonal quality and volume. Your Philharmonic Electric Chord Organ is largely hand crafted, just as any outstanding instrument should be! A giant in performance—yet it's light in weight, fully portable. Choose from a wide selection of models, including Piano-Keyboard model for those with piano background. DOUBLE GUARANTEED. Get new FREE Color Catalog and lowest Direct Importer-to-You Discount Prices. Rush Coupon . .

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Try it—play it—enjoy it in your own home on 5-FULL DAYS' FREE TRIAL. Only then can you appreciate how much fun the Philharmonic can bring into your home. Details free.

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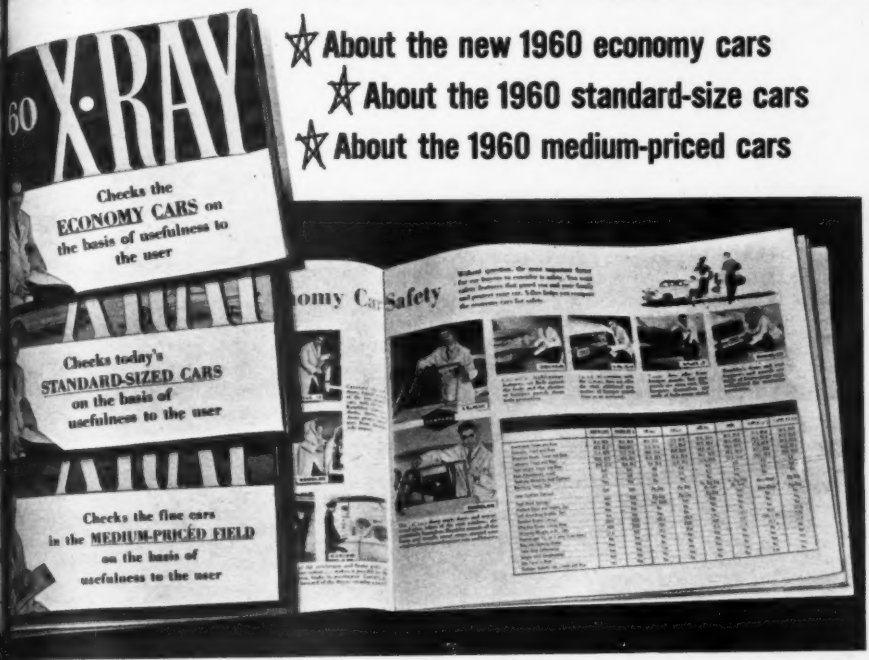
W! THE FACTS YOU'VE BEEN WAITING FOR!



- About the new 1960 economy cars
- About the 1960 standard-size cars
- About the 1960 medium-priced cars

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$1795

Suggested delivered price of the 1960 Rambler American 2-Door Deluxe Sedan at the factory, Kenosha, Wisconsin, including federal taxes. State and local taxes, if any, optional equipment, extra.

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makes tough jobs
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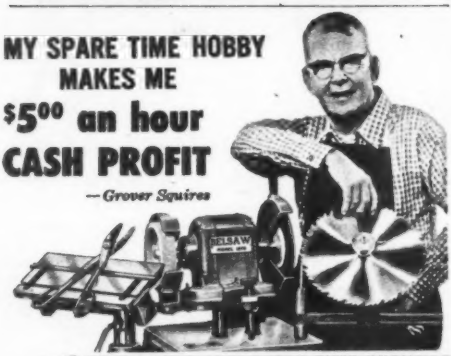
MY SPARE TIME HOBBY MAKES ME
$5.00 an hour CASH PROFIT
—Grover Squires



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Mail For McCahill

[*Continued from page* 54]

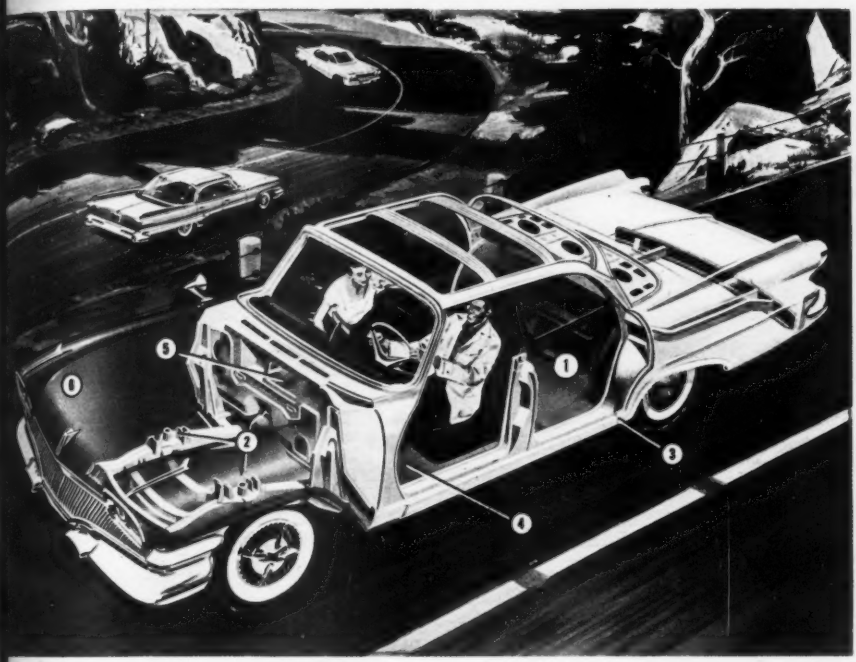
supervised by a recognized sanctioning body but left out of the ads was the fact that nearly all the driving was done at night when the traffic was at its lowest—and the average speed was actually a hair less than 30 mph for a trip of almost 3,000 miles! This type of economy publicity, though technically accurate, is reminiscent of the sharpie who says to the rube, "I'll bet you ten bucks I can jump higher than the Empire State Building." As soon as the money is down, the sharpie jumps six or seven inches off the ground and then says to his victim, "Okay, now let's see how high the Empire State Building can jump." Legally, the sharpie won the bet honestly but morally he's a cad, sir. Economy runs only begin to mean something when all the facts are published, such as average speed, time of day and driving conditions.

● *What's the best way for me and my wife to drive across the country this summer?*
K. O'Brien
Brooklyn, N.Y.

You might try an automobile.
—Tom McCahill

DON'T DO-ITS

Dodge Dart Is Sound-tight, Weather-tight, Built To Stay Tight!



...n many reasons why Dart rides and feels like it costs hundreds ...lars more than it really does. To build this new kind of low-priced ...Dodge engineers used a striking series of important advances ...t been available in the low-price field.

...UNIBODY CONSTRUCTION—Dart eliminates conventional two-...body-frame construction. It's welded into a single unit with ...ed-strength. One-piece construction eliminates body squeaks and ... It's far stronger to begin with—and it stays that way.

...FREE-FLIGHT POWER—New three-point suspension cradles ...e in space—actually floats it on supple steel coils and rubber ... Sound and vibration are completely isolated from passengers.

...SPECIAL WEATHER SEALING—All body seams and joints are ...ped to prevent leakage. Seams are further sealed with a special gun-applied mastic that stays pliable—won't dry out or crack with age.

4. NEW SOUND-DEADENING TECHNIQUES—Under hood, roof, and floor mats, heavy layers of special felt and rubber acoustical materials soak up road and wind noise. These sound deadeners are eight times as effective as the best of conventional sprayed-on materials.

5. SPECIAL SEALING FOR WIRES AND CONTROLS—Instead of punching separate holes in the firewall for entrance of control cables and wires, Dodge engineers routed major units through an ingenious self-sealing keyhole. There, special die-cut rubber blocks simultaneously position the wires and seal out drafts and noise.

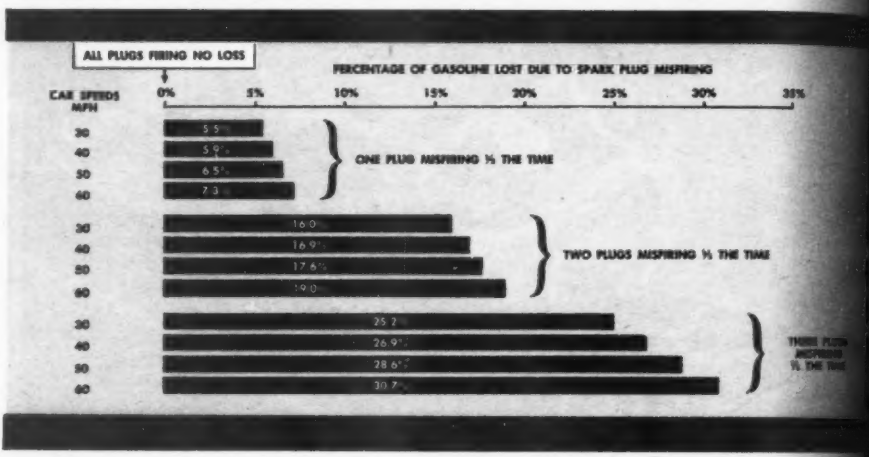
6. COMPLETE RUSTPROOFING INSIDE AND OUT—Every Dart Unibody is deep-dipped seven times in tenacious rust preventives. This deep-dipping completely seals every crack and seam, inside and out. Final finish is then added—two coats of special primer, two coats of lustrous, long-lasting Lustre-Bond baked enamel.

AMERICA'S FIRST FINE ECONOMY CAR **DODGE DART**

NOW DODGE BUILDS TWO GREAT CARS: DODGE DART • '60 DODGE

Look how much you lose when Spark Plugs misfire!

All spark plugs tend to misfire intermittently as they wear, and modern high horsepower engines make it difficult to tell when such misfiring occurs. But as the chart below shows, spark plugs that fire only part of the time waste gas by the gallon. For example, if your car gets 16 miles per gallon at 60 miles per hour, one misfiring spark plug can drop your mileage 7.3% to 14.8 – two can drop it 16% to 13 – three can drop it to 30.7% to less than 12. You lose mileage at all speeds, and the higher the speed, the greater the loss.

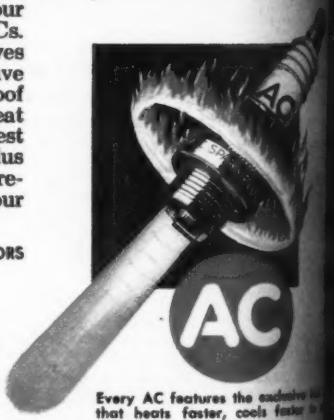


To get the best mileage from your car, replace your spark plugs at least every 10,000 miles with new ACs. AC Fire-Ring Spark Plugs will pay for themselves through the improved mileage you'll get. ACs have such mileage-producing features as exclusive leakproof conducting seal center electrode bond for uniform heat range, and superior Buttress Top insulator for greatest resistance to electrical flashover leakage. These plus many other advancements have kept AC in the forefront of spark plug development for 52 years. See your dealer, ask for ACs — and save.

AC SPARK PLUG ✿ THE ELECTRONICS DIVISION OF GENERAL MOTORS

AC PRESENTS THE ART CARNEY SHOW, NBC-TV, April 8

They must be the best!



Every AC features the exclusive [illegible] that heats faster, cools faster to [illegible] clean longer.

AC Fire-Ring Spark Plug